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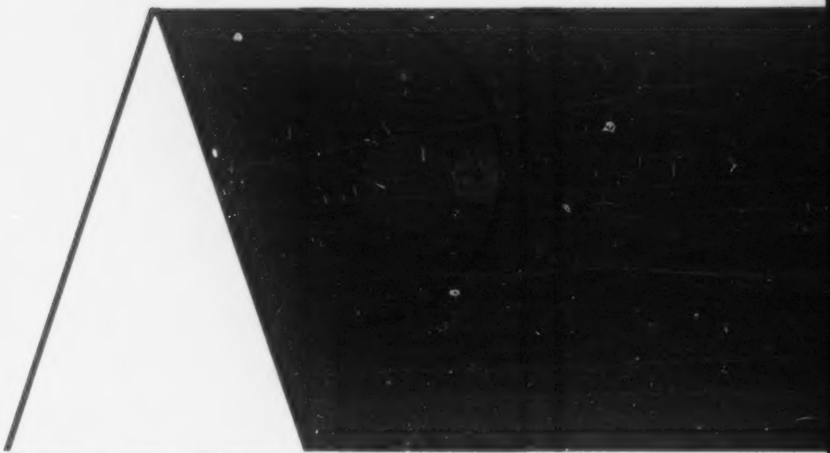

STATISTICS of PAPER PAPERBOARD & WOOD PULP

DATA THROUGH 1985

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FOREWORD

We are pleased to present the twenty-fourth edition of the American Paper Institute's **Statistics of Paper, Paperboard and Wood Pulp**.

The Statistics of Paper, Paperboard and Wood Pulp is designed to present an up-to-date comprehensive statistical compendium of the paper and paperboard industry. In addition to the statistics on production, imports, exports, consumption, finances, prices, employment and wage rates, this report compares paper and paperboard new supply by major grades with population and total economic activity as measured by the real Gross National Product.

The current edition follows the format instituted in the 1981 report, combining the tables into four functional groupings. Also included is a supplement showing Bureau of the Census data on construction and wet machine board together with the import and export data used to calculate the paper and paperboard new supply data shown on Table X.

This report updates the table showing major statistics on the operations of the paper industry mills and plants by state for the year 1983, as published by the Bureau of the Census. The last such report available was for the year 1978.

Each section starts with a brief description and explanation of the tables contained in that section.

We welcome any comments or suggestions you may have concerning the usefulness of this report.

Norma Pace

Norma Pace
Senior Vice President

October 1986

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SECTION 1

PRODUCTION AND RELATED OUTPUT DATA

Highlights of 1985

For the paper industry 1985 was a year of transition. Production declined slightly from the 1984 levels, but total output, and that of most grades, marked the second highest levels achieved. The declines in production largely reflected (1) the effects of inventory changes by the paper industry and its major users and (2) the effects of the high value of the dollar in international trade which tended to make the domestic market for paper and paperboard more attractive to overseas producers while reducing the demand for U.S. produced paper and paperboard in foreign markets. At the same time, actual consumption of paper and paperboard increased slightly in 1985 in line with the increase in total economic activity as measured by the real gross national product.

Transitions in the market place included reversal of the steep advance in the dollar; a 20% decline in the value of the dollar from its March 1985 peak to the end of the year was experienced. There is normally a lag between changes in the exchange rates and changes in imports and exports, so that 1985 was still marked by a strong increase in imports of paper and paperboard and decline in exports. By the year end, however, there were some indications that the export balance was improving.

Inventory policies were also in transition. At the beginning of 1985 inventories of paper, paperboard and wood pulp at the mills and at consumers were relatively high. Subsequent changes in inventory policies brought ratios of inventories to production down, so that by the end of the year they were generally in line with their long-term trends.

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The year was also marked by continued declines in the rate of inflation, with the major indicators -- the consumer price index, the producer price index and the price deflator of the gross national product -- averaging increases in the 2-4% range, a marked improvement from the double digit levels of only a few years ago. In addition, both short and long-term interest rates headed downward throughout the year.

The impact of these changes on the various sectors of the paper industry in 1985 was by no means uniform. Production of printing and writing papers (excluding newsprint) rose slightly to a new high, largely reflecting the strong demand for uncoated free sheet papers. Coated papers, by way of contrast, were strongly affected by rising imports, and domestic shipments declined sharply. The paper packaging grades also moved downward under the impact of competition from plastic materials.

Among the paperboard grades, production of kraft linerboard was strongly affected by declines in inventories at the mills and box plants as well as reduced exports. Recycled paperboard production, however, moved to a new high, reflecting increases in demand for both the packaging and non-packaging grades.

Description of Tables

Table I presents data on production, imports, exports and new supply of total paper and paperboard, including construction grades, together with the per capita new supply, real GNP and the ratio of new supply to real GNP for selected years from 1899 to 1985. Chart 1 portrays summarizes the major trends shown in Table I for the 1959-1985 period.

Table IA and Chart A present similar data for paper plus paperboard alone, in order to show data consistent with those published in the API's "Paper, Paperboard and Wood Pulp Monthly Statistical Summary".

Table II presents detailed data on production of paper by grade, while Tables III - IX present similar data for production of paperboard. The paperboard trends for the period 1968 through 1985, by type of board and by major market use, are shown in Table VII.

Table X presents data on new supply of paper and paperboard, by grade, together with the ratios of new supply to real GNP (revised to the 1982 price level) for the period 1959 to 1985. The trends for the individual grades show their growth rates relative to that of total economic activity. The import and export data used to compute new supply are shown in Tables XXIV and XXV. Data on imports of newsprint, groundwood paper and coated paper are those reported by the API's Printing-Writing Division, while the paperboard export data are those collected by Boxboard and Fourdrinier Kraft Board Divisions.

Tables XI and XII present data on paper, paperboard and wood pulp capacity, by grade, for the period 1973 to 1988, as reported in the API's Capacity Surveys.

Tables XIII and XIV present data on imports and exports of paper and allied products for the years 1980 - 1985 based on data from the Foreign Trade Division of the Bureau of the Census, grouped into categories matching those used to report production (See Tables II-XI). These differ somewhat from the API reports on production for export for many reasons, including timing. Exports of bleached paperboard have been re-grouped to conform to current usage.

Table XV presents data on the value of shipments of the various products reported at the 5-digit level of the Standard Industrial Classification for the Paper and Allied Products Industry Group for the years 1979 to 1984 as reported by the Bureau of the Census.

TABLE I

PAPER AND BOARD

(Includes Wet Machine Board and Construction Grades)

PRODUCTION, IMPORTS, EXPORTS AND NEW SUPPLY

1899 - 1985

YEAR	Production	Imports (Inc. Products)	Exports (Inc. Products)	New Supply*	Population Millions	Per Capita New Supply --lbs.--	Real Gross National Product $Bil.1982 Prices	Ratio of New Supply to Real GNP 000Tons/Bil.$
	--------------------(Thousand Tons)			--------------------				
1899	2,168	-	-	2,168	74.9	57.9	-	-
1919	5,966	708	421	6,253	105.1	119.0	-	-
1929	11,140	2,534	262	13,412	121.8	220.2	709.6	18.9
1934	9,187	2,265	163	11,289	126.5	178.5	536.7	21.0
1939	13,510	2,687	249	15,948	131.0	243.5	716.6	22.3
1944	17,183	2,576	314	19,445	138.9	280.0	1,330.6	14.6
1947	20,800	4,121	460	24,461	144.1	339.5	1,066.7	22.9
1948	21,532	4,582	377	25,737	146.6	351.1	1,108.7	23.2
1949	20,098	4,752	367	24,483	149.2	328.2	1,109.0	22.1
1950	23,992	5,006	364	28,634	152.3	376.0	1,203.7	23.8
1951	25,699	5,143	631	30,211	154.9	390.1	1,328.2	22.8
1952	24,008	5,190	584	28,614	157.6	363.1	1,380.0	20.7
1953	26,182	5,229	471	30,940	160.2	386.3	1,435.3	21.6
1954	26,411	5,165	682	30,894	163.0	379.1	1,416.2	21.8
1955	29,649	5,346	839	34,156	165.9	411.8	1,494.9	22.9
1956	30,901	5,780	775	35,906	168.9	425.2	1,525.6	23.5
1957	30,097	5,410	863	34,644	172.0	402.8	1,551.1	22.3
1958	30,214	5,092	847	34,459	174.9	394.0	1,539.2	22.4
1959	33,748	5,517	906	38,359	177.8	431.5	1,629.1	23.6
1960	33,904	5,633	1,020	38,517	180.7	426.3	1,665.2	23.1
1961	35,178	5,678	1,210	39,646	183.7	431.6	1,708.7	23.2
1962	37,062	5,740	1,187	41,615	186.5	446.3	1,799.4	23.1
1963	38,647	5,669	1,333	42,983	189.2	454.4	1,873.3	23.0
1964	40,962	6,209	1,694	45,477	191.9	474.0	1,973.3	23.1
1965	43,455	6,585	1,770	48,270	194.3	496.9	2,087.6	23.1
1966	46,701	7,358	1,942	52,117	196.6	530.2	2,208.3	23.6
1967	46,568	6,952	2,085	51,435	198.7	517.7	2,271.3	22.6
1968	50,134	6,842	2,625	54,351	200.7	541.6	2,365.6	23.0
1969	52,913	7,258	2,749	57,422	202.7	566.6	2,423.3	23.7
1970	51,671	7,115	2,817	55,969	205.1	545.8	2,416.2	23.2
1971	53,162	7,406	3,118	57,450	207.7	553.2	2,484.8	23.1
1972	57,433	7,676	3,069	62,040	209.9	591.1	2,608.5	23.8
1973	59,900	8,131	3,027	65,004	211.9	613.5	2,744.0	23.7
1974	59,040	8,065	3,797	63,308	213.9	591.9	2,729.3	23.2
1975	50,976	6,253	3,116	54,113	216.0	501.0	2,695.0	20.1
1976	58,329	7,142	3,456	62,015	218.0	568.9	2,826.7	21.9
1977	60,040	7,432	3,230	64,242	220.2	583.5	2,958.6	21.7
1978	62,047	9,113	3,373	67,787	222.6	609.0	3,115.2	21.8
1979	64,345	9,123	3,672	69,796	225.1	620.1	3,192.3	21.9
1980	63,536	8,780	5,214	67,102	227.8	589.1	3,187.2	21.1
1981	64,263	8,339	4,641	67,961	230.1	590.7	3,248.7	20.9
1982R	60,988**	8,024	4,246	64,766	232.5	557.1	3,166.0	20.5
1983R	66,815**	8,986	4,568	71,233	234.8	606.8	3,279.1	21.7
1984R	70,250**	11,076	4,387	76,939	237.0	649.3	3,489.9	22.0
1985P	68,855	11,522	4,077	76,300	239.3	637.7	3,585.2	21.3

SOURCE: Production 1899-1958 - Department of Commerce, Bureau of the Census
Production 1959-1985 - American Paper Institute
Imports and Exports - Department of Commerce, Bureau of the Census
Population - Department of Commerce, Bureau of the Census
Real Gross National Product - Department of Commerce, Bureau of Economic Analysis
All calculations by American Paper Institute

NOTE: Production, Imports and Exports 1899-1944 includes Hard Pressed Board.
Population data include Armed Forces overseas.
R - Revised P - Preliminary

* New Supply = Production plus Imports less Exports; includes imports and exports of products.

** Includes API estimate for construction and wet machine board grades: 1982 - 1,662,000 tons; 1983 - 1,800,000 tons; 1984 - 1,800,000 tons; 1985 - 1,800,000 tons. (See Table X.)

Chart 1

PAPER AND PAPERBOARD

(Including Wet Machine Board & Construction Grades)

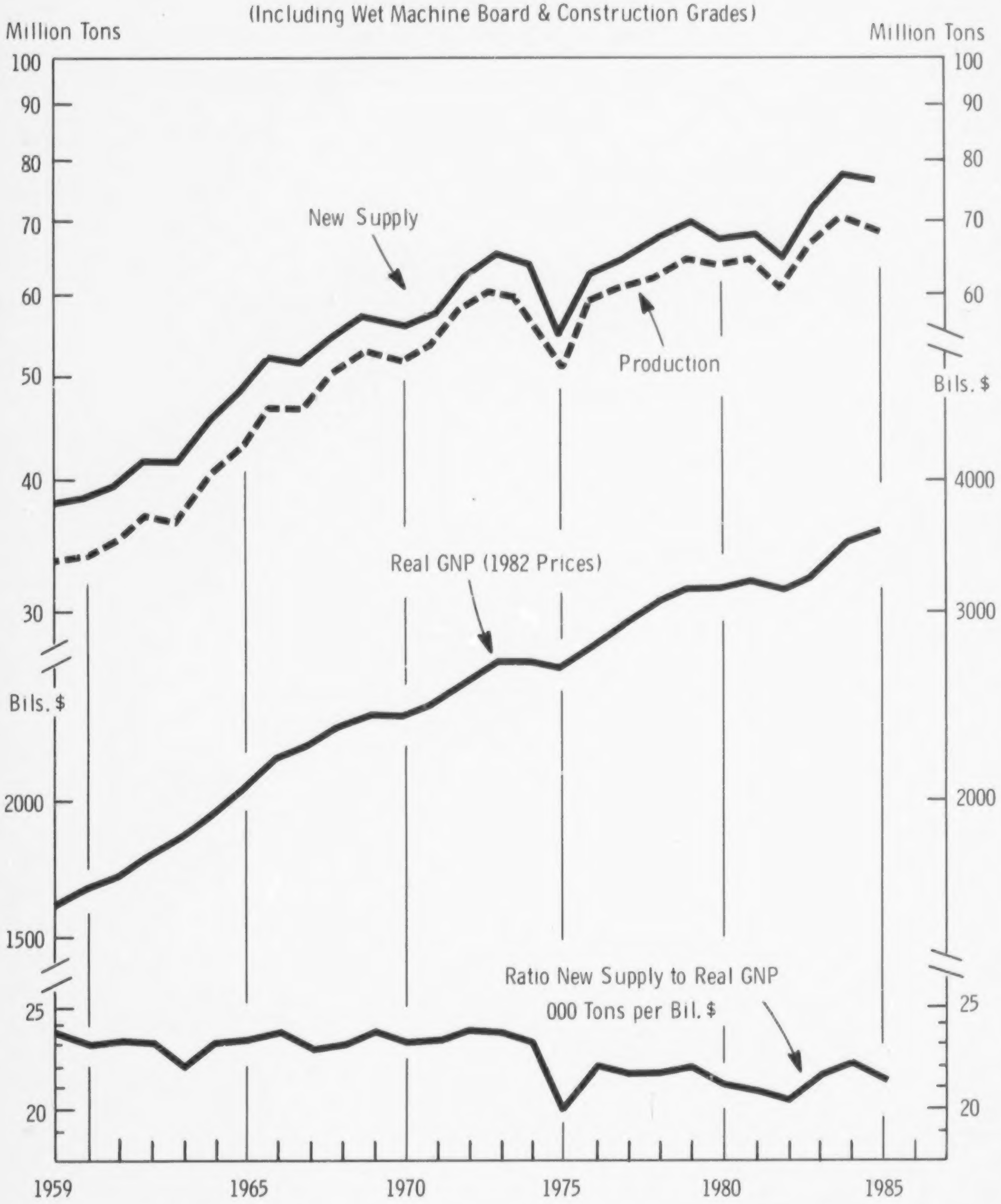

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TABLE IA

PAPER PLUS PAPERBOARD

PRODUCTION, IMPORTS, EXPORTS AND NEW SUPPLY

1959 - 1985

YEAR	Production	Imports	Exports	New Supply*	Real Gross National Product $ Bil. 1982 Prices	Ratio New Supply to Real GNP 000 Tons/$ Bil.
	----------Thousand Tons----------					
1959	30,997	5,484	874	35,607	1,629.1	21.86
1960	31,221	5,611	990	35,842	1,665.2	21.52
1961	32,548	5,663	1,174	37,037	1,708.7	21.68
1962	34,407	5,719	1,154	38,972	1,799.4	21.66
1963	35,914	5,637	1,302	40,249	1,873.3	21.49
1964	38,066	6,154	1,660	42,560	1,973.3	21.57
1965	40,489	6,545	1,737	45,297	2,087.6	21.70
1966	43,904	7,327	1,904	49,326	2,208.3	22.34
1967	43,745	6,917	2,054	48,608	2,271.3	21.40
1968	47,071	6,793	2,587	51,277	2,365.6	21.68
1969	49,810	7,209	2,703	54,316	2,423.3	22.41
1970	48,719	7,057	2,779	52,997	2,416.2	21.93
1971	49,741	7,319	3,076	53,984	2,484.8	21.73
1972	53,842	7,567	3,020	58,388	2,608.5	22.38
1973	56,346	8,019	2,966	61,399	2,744.0	22.37
1974	55,756	7,970	3,720	60,007	2,729.3	21.99
1975	47,997	6,164	3,050	51,111	2,695.0	18.97
1976R	54,994	7,042	3,388	58,648	2,826.7	20.75
1977	56,656	7,294	3,171	60,779	2,958.6	20.54
1978	58,571	8,781	3,301	64,050	3,115.2	20.56
1979	61,070	8,738	3,610	66,198	3,192.3	20.74
1980	60,978	8,304	5,148	64,134	3,187.2	20.12
1981	62,113	7,941	4,561	65,493	3,248.7	20.16
1982R	59,326	7,603	4,187	62.742	3,166.0	19.82
1983R	65,015	8,509	4,501	69,023	3,279.1	21.05
1984P	68,450	10,576	4,309	74,717	3,489.9	21.41
1985P	67,055	11,105	4,008	74,152	3,585.2	20.68

SOURCE: See Table I

NOTE: All data exclude wet machine board, building paper and insulating board.

* - New Supply = Production plus imports less exports; includes imports and exports of products.

R - Revised

P - Preliminary

Chart 1A

PAPER AND PAPERBOARD

(Excluding Wet Machine Board & Construction Grades)

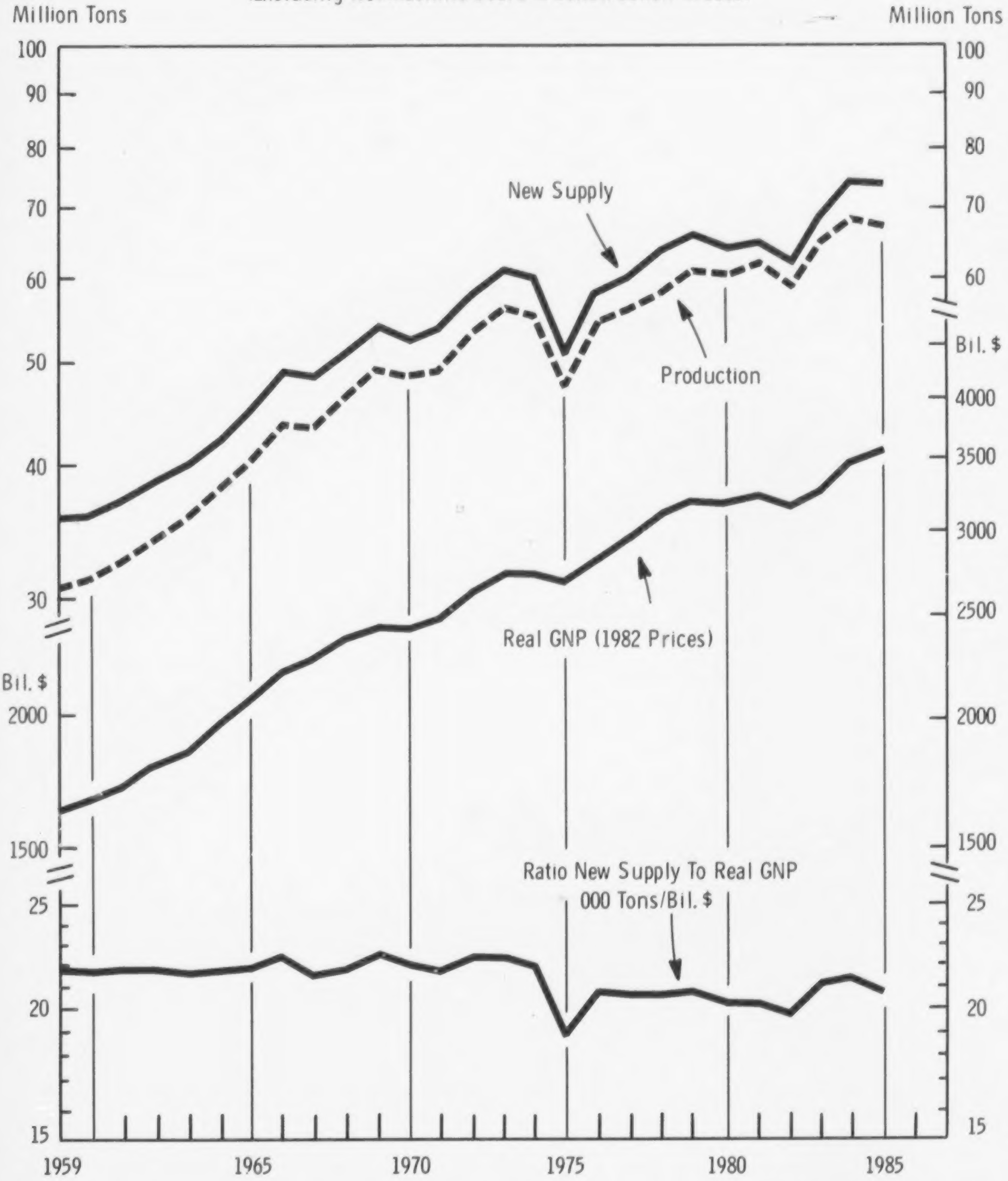

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TABLE II

TOTAL PAPER SHIPMENTS

1959 - 1985

(Thousands of Tons)

	1959	1960	1961	1962	1963	1964
TOTAL PAPER, ALL GRADES	**15,025.3**	**15,294.6**	**15,821.1**	**16,560.4**	**17,319.5**	**3,111.7**
Newsprint Production	**1,964.0**	**2,038.0**	**2,094.0**	**2,153.9**	**2,218.0**	**2,261.0**
Total Printing-Writing Papers	**6,907.4**	**7,120.6**	**7,369.9**	**7,803.7**	**8,183.5**	**8,667.9**
Uncoated Groundwood	**896.4**	**929.0**	**907.3**	**909.7**	**956.4**	**995.4**
Publishing and Printing	731.0	746.8	746.2	755.0	806.7	837.2
Converting	165.4	182.2	161.1	154.7	149.7	158.2
Coated Papers	**1,992.3**	**2,122.3**	**2,159.3**	**2,290.5**	**2,425.2**	**2,608.3**
Uncoated Free Sheet Papers	**3,095.8**	**3,112.5**	**3,270.1**	**3,458.3**	**3,634.1**	**3,847.5**
Bond and Writing	429.2	371.8	407.0	457.3	470.0	499.2
Form Bond	245.0	260.0	300.0	345.0	375.0	420.0
Ledger	47.1	42.6	43.5	45.9	45.1	43.0
Mimeograph	102.5	102.1	110.0	113.3	110.9	116.5
Duplicating	92.3	93.6	106.0	111.5	116.0	117.3
Manifold	25.8	25.8	24.3	22.9	17.4	15.5
Papeterie and Wedding	50.1	49.9	44.7	49.3	42.9	45.2
Opaque Circular	27.8	30.1	28.8	26.5	27.3	20.6
Other	185.7	190.3	215.3	229.8	247.6	261.0
Cover and Text Papers	129.0	133.1	142.1	153.8	155.4	168.1
M.F., E.F. & Super Calendered	478.5	437.4	346.6	274.2	264.1	240.1
Offset	547.0	622.6	679.3	765.1	862.3	948.5
White Wove Envelope	261.6	267.3	280.0	310.6	318.8	357.3
Tablet	219.6	221.5	249.9	250.3	281.5	293.7
Kraft Envelope Papers: Total	154.3	157.7	164.1	175.3	175.2	172.0
Brown Kraft - Estimated	70.0	75.0	80.0	85.0	85.0	80.0
Bleached Kraft - Estimated	74.3	82.7	84.1	90.3	90.2	92.0
Other	99.5	106.7	128.5	127.5	124.6	129.5
Thin Papers	**135.1**	**148.1**	**153.9**	**183.7**	**178.7**	**192.7**
Cotton Fiber Papers	**119.9**	**115.0**	**118.6**	**118.0**	**118.8**	**117.8**
Bond and Writing	67.5	66.4	69.4	68.8	70.8	72.1
Other Business	32.1	29.9	30.4	30.5	29.7	28.0
Technical and Other	20.3	18.7	18.8	18.7	18.3	17.7
Bleached Bristols	**667.9**	**693.7**	**760.7**	**843.5**	**870.3**	**906.2**
Tabulating Index	279.3	298.2	342.9	393.7	395.5	419.4
Tag	144.1	143.1	149.5	154.6	164.7	171.6
File Folder	44.6	42.9	39.2	51.2	58.9	59.6
Index Bristol	98.3	92.4	94.2	97.6	98.0	97.4
Printing Bristol	20.1	19.9	21.7	22.3	22.3	22.4
Postcard	13.3	16.5	18.7	18.6	13.7	10.4
Coated Bristol	68.2	80.7	94.5	105.5	117.2	125.5
Total Packaging and Industrial Papers	**4,026.0**	**3,934.6**	**4,045.0**	**4,188.6**	**4,341.6**	**4,436.1**
Unbleached Kraft, Bleached Packaging, Glassine, Greaseproof & Vegetable Parchment	**3,731.0**	**3,651.4**	**3,733.0**	**3,880.6**	**4,027.2**	**4,091.7**
Unbleached Kraft Papers	2,776.1	2,738.7	2,779.7	2,890.9	3,051.4	3,098.4
Wrapping	337.3	329.6	343.2	339.2	354.6	352.2
Bag and Sack (Exc. Shipping Sack)	1,102.0	1,127.2	1,135.1	1,231.0	1,270.2	1,326.2
Shipping Sack	813.6	786.7	795.9	797.8	880.7	865.9
Other Converting	523.2	495.2	505.5	522.9	545.9	554.1
Bleached Packaging Papers (Census)	779.0	735.5	769.1	799.0	782.0	797.4
Wrapping	228.7	215.0	196.3	204.3	191.4	191.7
Bag and Sack (Exc. Shipping Sack)	102.8	102.6	121.7	134.5	130.4	138.5
Shipping Sack	54.7	59.3	61.4	59.8	67.0	75.2
Other Converting 1/	392.8	358.6	389.7	400.4	393.2	392.0
Glassine, Grsprf. and Veg. Parch. (Census)	175.9	177.2	184.2	190.7	193.8	195.9
Special Industrial Papers (Census)	**295.0**	**283.2**	**312.0**	**308.0**	**314.4**	**344.4**
Total Tissue Papers (Census)	**2,127.9**	**2,201.4**	**2,312.2**	**2,414.2**	**2,576.4**	**2,746.7**
Total Sanitary Tissue Stock	**1,881.7**	**1,963.6**	**2,078.0**	**2,178.9**	**2,340.4**	**2,515.7**
Toilet Tissue	878.4	878.0	936.1	985.4	1,054.6	1,107.2
Facial Tissue Stock	233.7	254.2	262.0	261.8	278.4	327.4
Napkin Stock	228.6	238.1	246.6	249.5	261.3	266.1
Towelling*	469.1	516.2	558.9	604.5	662.9	723.1
Wiper Stock*	21.7	25.7	26.5	31.9	33.1	38.4
Other Sanitary Tissue*	50.2	51.3	47.7	45.8	50.0	53.5
Total All Other Tissue	**246.2**	**237.8**	**234.3**	**235.3**	**236.0**	**231.0**

1/ Excludes Bleached Kraft Envelope Paper   * Revised slightly by API
NOTE (Census): Current Industrial Reports, Pulp, Paper and Board

TABLE II (Cont.)

TOTAL PAPER SHIPMENTS

1959 - 1985

(Thousands of Tons)

	1965	1966	1967	1968	1969	1970	1971
TOTAL PAPER, ALL GRADES	**19,157.0**	**20,724.9**	**20,925.6**	**22,167.7RS**	**23,434.6**	**23,335.5**	**23,704.1**
Newsprint Production	**2,245.0**	**2,483.0**	**2,709.0**	**3,045.0**	**3,362.0**	**3,464.0**	**3,476.0**
Total Printing-Writing Papers	**9,337.5**	**10,318.4**	**10,121.9**	**10,497.9RS**	**11,157.0**	**10,922.3**	**11,150.1**
Uncoated Groundwood	**974.0**	**1,088.3**	**1,019.6**	**1,090.3**	**1,094.9**	**1,084.6**	**1,089.2**
Publishing and Printing	814.0	876.4	806.4	883.3	914.0	924.4	929.0
Converting	160.0	211.9	213.2	207.0	180.9	160.2	160.2
Coated Papers	**2,814.2**	**3,087.6**	**3,086.4**	**3,100.5RS**	**3,306.4**	**3,239.2**	**3,191.9**
Uncoated Free Sheet Papers	**4,216.0**	**4,691.9**	**4,577.0**	**4,817.7**	**5,214.9**	**5,124.4**	**5,386.9**
Bond and Writing	555.9	620.8	613.9	627.1	718.0	698.6	761.5
Form Bond	490.0	575.0	600.0	645.0	778.1	722.1	787.1
Ledger	46.6	49.1	47.5	54.6	51.1	48.2	51.5
Mimeograph	117.3	125.4	122.7	115.1	113.1	126.4	125.5
Duplicating	125.6	134.9	141.9	160.9	172.5	165.6	162.9
Manifold	19.9	20.2	17.2	14.0	11.0	9.8	10.7
Papeterie and Wedding	45.5	51.7	51.7	56.0	59.9	53.9	51.9
Opaque Circular	22.9	23.8	24.6	23.3	25.0	23.6	24.5
Other	302.2	330.3	344.7	365.7	378.3	440.7	459.6
Cover and Text Papers	186.0	194.1	192.2	192.8	200.1	193.2	181.0
M.F., E.F. & Super Calendered	219.3	228.2	209.9	198.2	214.3	162.1	147.6
Offset	1,062.4	1,221.9	1,165.3	1,272.1	1,356.5	1,360.4	1,443.4
White Wove Envelope	392.4	412.8	423.0	459.6	461.2	466.1	467.6
Tablet	304.4	346.3	294.6	313.0	320.9	342.4	401.3
Kraft Envelope Papers: Total	194.0	203.7	188.5	186.6	208.8	189.6	176.9
Brown Kraft	67.0E	68.1E	92.9E	92.1E	102.9	95.7	93.7
Bleached Kraft	127.0E	135.6E	95.6E	94.5E	105.9	93.9	83.2
Other	131.6	153.7	139.3	133.7	146.1	121.7	133.9
Thin Papers	**211.3**	**245.4**	**238.0**	**261.6**	**289.0**	**287.9**	**292.3**
Cotton Fiber Papers	**122.3**	**126.3**	**124.8**	**124.0**	**128.1**	**115.4**	**112.8**
Bond and Writing	74.8	78.7	74.8	80.5	85.3	76.5	75.7
Other Business	29.0	28.8	30.1	25.2	24.7	23.4	21.1
Technical and Other	18.5	18.8	19.9	18.3	18.1	15.5	16.0
Bleached Bristols	**999.7**	**1,078.9**	**1,076.1**	**1,103.8**	**1,123.7**	**1,070.8**	**1,077.0**
Tabulating Index	478.6	514.4	533.2	534.6	558.7	499.6	458.3
Tag	194.9	196.9	187.4	203.7	193.5	184.3	193.5
File Folder	64.0	71.4	71.0	77.8	76.5	72.0	80.9
Index Bristol	100.6	115.0	105.5	104.4	100.4	102.3	106.1
Printing Bristol	23.4	26.5	24.6	24.0	28.4	32.0	32.9
Postcard	8.8	10.3	8.5	5.2	6.8	6.7	6.7
Coated Bristol	129.4	144.4	145.9	154.1	159.4	173.9	198.6
Total Packaging and Industrial Papers	**4,683.9**	**4,823.7**	**4,865.8**	**5,168.9**	**5,304.8**	**5,230.8**	**5,245.4**
Unbleached Kraft, Bleached Packaging, Glassine, Greaseproof & Vegetable Parchment	**4,319.1**	**4,430.1**	**4,479.3**	**4,753.1**	**4,861.8**	**4,809.7**	**4,807.1**
Unbleached Kraft Papers	3,293.1	3,414.4	3,391.9	3,602.5	3,670.2	3,672.4	3,649.2
Wrapping	358.9	370.0	334.7	353.5	327.7	296.4	280.3
Bag and Sack (Exc. Shipping Sack)	1,447.7	1,548.1	1,631.3	1,713.0	1,797.9	1,927.4	1,929.3
Shipping Sack	894.9	884.7	902.5	978.8	983.5	953.3	930.4
Other Converting	591.6	611.6	523.4	557.2	561.1	495.3	509.2
Bleached Packaging Papers (Census)	825.4	801.1	891.3	942.9	975.2	934.0	952.1
Wrapping	207.4	208.4	217.7	210.5	229.3	219.6	205.7
Bag and Sack (Exc. Shipping Sack)	163.1	171.6	185.5	207.8	227.3	218.6	234.7
Shipping Sack	72.0	73.7	89.1	88.7	99.8	97.9	101.9
Other Converting 1/	382.9	347.4	398.9	435.8	418.7	397.9	409.8
Glassine, Grspf. and Veg. Parch. (Census)	200.6	214.6	196.1	207.7	216.4	203.3	205.8
Special Industrial Papers (Census)	**364.8**	**393.6**	**386.5**	**415.8**	**443.0**	**421.1**	**438.3**
Total Tissue Papers	**2,890.6C**	**3,099.8C**	**3,228.9**	**3,455.9**	**3,610.8**	**3,718.4**	**3,832.6**
Total Sanitary Tissue Stock	**2,651.4**	**2,847.5**	**2,976.7**	**3,217.2**	**3,368.6**	**3,494.0**	**3,604.3**
Toilet Tissue	1,120.9	1,169.9	1,171.0	1,273.1	1,274.7	1,323.1	1,376.2
Facial Tissue Stock	327.2	337.5	349.1	349.8	386.4	365.0	341.1
Napkin Stock	287.3	332.8	347.3	374.7	377.8	381.2	394.7
Towelling	816.4	897.7	987.8	1,077.7	1,136.9	1,168.1	1,183.7
Wiper Stock	40.1	49.1	48.9	50.3	58.8	55.8	54.9
Other Sanitary Tissue	59.5	60.5	72.8	91.5	134.1	200.8	253.8
Total All Other Tissue	**239.2**	**252.3**	**252.1**	**238.7**	**242.2**	**224.5**	**228.3**

E - Estimated   1/ Excludes Bleached Kraft Envelope Paper   RS - Revised Series

NOTE (Census): Current Industrial Reports, Pulp, Paper and Board   C - Bureau of the Census data

TABLE II (Cont.)

TOTAL PAPER SHIPMENTS

1959-1985

(Thousands of Tons)

	1972	1973	1974	1975	1976	1977	1978
TOTAL PAPER, ALL GRADES	**25,339.5**	**26,774.7**	**26,841.4**	**23,240.8**	**26,553.6**	**27,702.9**	**28,295.8**
Newsprint Production	**3,656.0**	**3,738.0**	**3,561.0#**	**3,691.0**	**3,735.9**	**3,870.5**	**3,767.5**
Total Printing-Writing Papers	**12,213.2**	**13,388.7**	**13,450.1**	**10,981.3**	**13,223.5**	**13,859.6**	**14,568.9**
Uncoated Groundwood	**1,126.0**	**1,180.9**	**1,192.4**	**1,127.2**	**1,320.6**	**1,359.7**	1,354.4
Publishing and Printing	950.9	985.1	1,001.8	947.5	1,066.5	1,082.4	1,061.0
Converting	175.1	195.8	190.6	179.7	254.1	277.3	293.4
Coated Papers	**3,483.2**	**3,779.1**	**3,775.8**	**3,155.4**	**3,933.1**	**4,210.3**	**4,399.9**
Uncoated Free Sheet Papers	**5,991.2**	**6,713.6**	**6,795.3**	**5,363.3**	**6,492.8**	6,790.8	7,246.0
Bond and Writing	889.6	1,075.0	1,332.6	1,017.3	1,278.9	1,353.5	1,424.7
Form Bond	913.0	1,119.9	1,161.5	950.1	1,164.4	1,208.3	1,330.5
Ledger	53.9	62.0	71.0	51.2	57.8	59.9	57.7
Mimeograph	128.2	143.3	128.8	96.2	100.8	92.3	91.9
Duplicating	171.4	182.4	178.4	123.6	136.0	147.0	149.5
Manifold	11.8	12.7	11.7	9.0	12.0	9.2	12.1
Papeterie and Wedding	51.1	57.3	47.3	34.2	47.5	43.6	49.2
Opaque Circular	26.2	33.6	38.1	26.6	32.8	32.7	39.6
Other	508.0	608.4	634.5	460.4	539.2	576.7	638.7
Cover and Text Papers	194.4	219.5	213.1	156.2	175.3	189.1	212.1
M.F., E.F. & Super Calendered	128.6	154.6	128.1	66.5	69.3	66.1	69.5
Offset	1,661.8	1,828.9	1,800.6	1,435.9	1,748.6	1,856.8	1,880.6
White Wove Envelope	527.0	570.9	530.6	456.6	519.9	554.4	592.3
Tablet	396.5	305.5	167.5	229.3	299.6	285.4	350.4
Kraft Envelope Papers: Total	189.5	214.0	203.1	163.8	204.0	203.3	230.2
Brown Kraft	93.2	106.7	98.3	83.4	101.4	101.1	121.1
Bleached Kraft	96.3	107.3	104.8	80.4	102.6	102.2	109.1
Other	140.2	125.6	148.4	86.4	106.7	112.5	117.0
Thin Papers	**333.2**	**358.2**	**371.8**	**310.8**	**348.4**	**338.7**	**351.7**
Cotton Fiber Papers	**119.1**	**123.7**	**117.0**	**94.5**	**104.2**	**108.5**	**114.4**
Bond and Writing	81.1	85.5	82.2	67.6	75.8	80.2	84.4
Other Business	22.2	22.8	20.8	16.3	15.8	15.6	16.3
Technical and Other	15.8	15.4	14.0	10.6	12.6	12.7	13.7
Bleached Bristols	**1,160.5**	**1,233.2**	**1,197.8**	**930.1**	**1,024.4**	**1,051.6**	**1,102.5**
Tabulating Index	465.0	491.2	498.6	372.7	334.3	338.0	310.6
Tag	217.1	220.3	140.1	132.3	177.6	177.1	207.7
File Folder	88.3	87.1	66.9	86.0	92.0	99.3	112.3
Index Bristol	120.9	130.9	181.0	119.0	140.8	135.6	143.4
Printing Bristol	39.2	46.9	52.5	37.9	43.0	46.4	51.3
Postcard	5.7	3.1	0.2	1.3	1.4	1.3	0.6
Coated Bristol	224.3	253.7	258.5	180.9	235.3	253.9	276.6
Total Packaging and Industrial Papers	**5,493.7**	**5,609.2**	**5,743.9**	**4,589.1**	**5,410.6**	**5,687.6**	**5,744.6**
Unbleached Kraft, Bleached Packaging, Glassine, Greaseproof & Veg. Parchment	**4,986.9**	**4,999.1**	**5,132.6**	**4,138.4**	**4,824.0**	**5,151.2**	**5,237.6**
Unbleached Kraft Papers	3,810.9	3,901.6	4,033.5RS	3,253.7	3,788.1	3,805.6	3,863.4
Wrapping	282.5	272.3	175.3RS	139.1	150.0	156.4	156.3
Bag and Sack (Exc. Shipping Sack)	2,014.5	2,006.2	2,130.5RS	1,924.6	2,106.2	2,099.7	2,224.5
Shipping Sack	935.7	1,025.8	1,187.2RS	838.4	1,004.2	1,035.0	990.3
Other Converting	578.2	597.3	540.5RS	351.6	527.7	514.5	492.3
Bleached Packaging Papers (Census)	942.0	867.0	858.6	693.5	828.7	1,127.0*	1,115.2*
Wrapping	204.4	158.1	143.1	115.3	126.4	136.1	154.2
Bag and Sack (Exc. Shipping Sack)	240.8	254.2	245.2	227.8	273.9	304.1	276.7
Shipping Sack	105.1	104.4	130.2	95.3	127.6	106.8	91.6
Other Converting 1/	391.7	350.4	340.1	255.1	300.8	580.0	592.7
Glassine, Grsprf. and Veg. Parch.	234.0	230.5	240.5	191.2	207.2	218.6	259.0
Special Industrial Papers	**506.8**	**610.1**	**611.3RS**	**450.7**	**586.6**	**536.4**	**507.0**
Total Tissue Papers (Census)	**3,976.6**	**4,038.8**	**4,086.4**	**3,979.4**	**4,183.6**	**4,285.2**	**4,214.8**
Total Sanitary Tissue Stock	**3.746.2**	**3,771.8**	**3,823.2**	**3,771.9**	**3,954.6**	**4,069.6**	**4,017.4**
Toilet Tissue	1,398.7	1,440.5	1,466.1	1,520.1	1,608.9	1,660.2	1,643.2
Facial Tissue Stock	367.2	361.8	356.9	339.8	335.1	336.0	329.0
Napkin Stock	419.3	447.7	442.5	462.1	455.2	491.9	493.1
Towelling	1,249.4	1,276.4	1,333.2	1,248.5	1,323.2	1,353.4	1,317.6
Wiper Stock	59.4	61.3	45.3	37.0	46.4	43.8	44.8
Other Sanitary Tissue	252.2	184.1	179.2	164.6	185.9	184.3	189.6
Total All Other Tissue	**230.5**	**267.0**	**263.2**	**207.5**	**228.9**	**216.0**	**197.4**

NOTE (Census): Current Industrial Reports, Pulp, Paper and Board
1/ Excludes Bleached Kraft Envelope Paper
Basis weight change from 32 lb. to 30 lb.
* Data overstated by about 10% based on 1980 revision of 1979 data.
RS Revised Series

TABLE II (Cont.)

TOTAL PAPER SHIPMENTS

1959 - 1985

(Thousands of Tons)

	1979	1980	1981	1982R	1983R	1984R	1985P
TOTAL PAPER, ALL GRADES	29,641.4	30,026.4	30,881.0	30,261.3	32,838.3	34,411.5	34,029.5
Newsprint Production	**4,061.9**	**4,672.3**	**5,238.6**	**5,041.9**	**5,167.0**	**5,538.8**	**5,427.7**
Total Printing-Writing Papers	**15,318.6**	**15,543.6**	**15,720.5**	**15,602.8**	**17,382.3**	**18,396.6**	**18,450.4**
Uncoated Groundwood	**1,509.0**	**1,498.8**	**1,471.1**	**1,470.8**	**1,530.8**	**1,565.3**	**1,515.9**
Publishing and Printing	1,186.0	1,178.2	1,113.1	1,113.2	1,189.7	1,252.2	1,229.8
Converting	323.0	320.6	358.0	357.6	342.9	313.1	286.1
Coated Papers	**4,472.3**	**4,621.6**	**4,892.7**	**4,991.0**	**5,715.8**	**6,248.9**	**5,875.1**
Uncoated Free Sheet Papers	**7,863.1**	**8,032.2**	**7,917.4**	**7,861.3**	**8,779.7**	**9,207.3**	**9,749.9**
Bond and Writing	1,578.3	1,789.7	1,694.0	1,768.5	2,057.3	2,114.8	2,295.5
Form Bond	1,449.3	1,491.6	1,580.3	1,513.4	1,692.5	1,836.4	1,923.3
Ledger	58.0	51.3	49.9	48.9	51.4	50.6	48.8
Mimeograph	85.6	90.9	75.5	53.0	55.9	47.6	47.1
Duplicating	153.3	173.6	147.6	139.8	132.1	117.4	106.9
Manifold	10.8	8.9	4.0	3.1	2.9	2.3	2.0
Papeterie and Wedding	56.4	46.2	45.6	42.0	38.7	42.8	41.4
Carbonless 5/	N.A.	338.8	375.2	378.7	400.0	443.4	495.8 5/
Cover and Text Papers	243.1	238.2	243.0	235.1	276.0	299.5	288.9
M.F., E.F. & Super Calendered	85.9	78.7	77.3	65.7	82.5	72.2	69.4
Offset 4/	2,155.2	2,071.2	2,018.5	2,017.6	2,205.8	2,389.4	2,453.1
White Wove Envelope	634.9	649.9	638.3	638.7	715.1	773.7	787.3
Tablet	320.1	323.1	316.9	345.3	406.1	299.2	437.2
Kraft Envelope Papers: Total	234.4	226.2	221.5	207.8	230.7	237.4	234.7
Brown Kraft	115.6	111.7	111.0	102.2	114.2	113.8	125.4
Bleached Kraft	118.8	114.5	110.5	105.6	116.5	123.6	109.3
Other	797.8	453.9RS	429.8	403.7	432.7	480.6	518.5
Thin Papers	**371.4**	**333.0**	**353.4**	**297.0**	**279.8**	**292.4**	**241.3**
Cotton Fiber Papers	**124.6**	**126.3**	**125.6**	**120.2**	**132.7**	**147.2**	**144.1**
Bond and Writing	93.1	95.2	95.3	94.8	105.9	119.4	117.4
Other Business	16.6	14.1	13.7	11.0	10.6	8.8	8.7
Technical and Other	14.9	17.0	16.6	14.4	16.2	19.0	18.0
Bleached Bristols	**978.2**	**931.7**	**960.3**	**862.5**	**930.9**	**960.9**	**924.1**
Tabulating Index	217.0	202.3	152.8	123.2	106.7	67.6	70.0
Tag	208.7	177.7	194.3	168.9	190.9	196.7	176.6
File Folder	127.6	114.0	127.0	120.7	144.0	139.8	163.2
Index Bristol	137.9	147.0	143.4	130.4	136.4	140.8	140.0
Printing Bristol	53.0	52.1	51.1	49.6	55.2	56.1	56.4
Postcard	0.2	0.4	1.4	2.4	1.9	2.8	3.2
Coated Bristol	233.8	238.2	290.3	267.3	295.8	357.1	314.7
Total Packaging and Industrial Papers	**5,740.4**	**5,435.5**	**5,404.3R**	**5,175.2**	**5,497.3**	**5,555.0**	**5,210.4**
Unbleached Kraft and Bleached Packaging, Glassine, Greaseproof & Veg. Parchment	**5,196.8**	**4,961.0**	**4,918.82/**	**4,438.12/**	**4,811.3**	**4,864.0**	**4,540.0**
Unbleached Kraft Papers	3,931.0	3,815.8	3,732.7	3,562.9	3,665.63/	3,665.8	3,406.1
Wrapping	149.6	115.7	106.6	92.8	100.3	97.1	92.9
Bag and Sack (Exc. Shipping Sack)	2,225.8	2,269.4	2,209.2	2,210.9	2,288.6	2,284.1	2,120.1
Shipping Sack	1,085.8	1,033.3	1,014.6	895.1	879.3	879.7	795.5
Other Converting	469.8	397.4	402.3	364.1	397.4	404.9	397.6
Bleached Packaging Papers (Census)	1,031.9	943.5	N.A.	N.A.	N.A.	N.A.	N.A.
Wrapping	118.9	102.6	47.32/	44.6	46.4	38.1	30.9
Bag and Sack (Exc. Shipping Sack)	250.4	228.6	217.12/	222.4	239.9	259.1	265.9
Shipping Sack	102.4	92.0	73.92/	77.9	88.4	89.5	80.1
Other Converting 1/	560.2	520.3)					
Glassine, Grsprf & Veg. Parch. (Census)	233.9	201.7)	1,333.32/	1,267.42/	1,457.52/	1,502.52/	1,427.4
Special Industrial Papers (Census)	**543.6**	**474.5)**					
Total Tissue Papers	**4,520.5**	**4,375.0**	**4,517.6**	**4,441.4**	**4,791.7**	**4,921.1**	**4,941.0**
Total Sanitary Tissue Stock	**4,324.5**	**4,221.1**	**4,366.9**	**4,289.7**	**4,614.2**	**4,760.7**	**4,797.5**
Toilet Tissue	1,742.4	1,651.5	1,714.1	1,747.5	1,835.2	1,851.6	1,882.4
Facial Tissue Stock	357.9	353.3	369.4	359.5	389.3	378.5	353.8
Napkin Stock	537.2	554.7	577.6	606.0	532.7	569.8	579.1
Towelling	1,404.0	1,376.4	1,415.3	1,334.7	1,577.2	1,670.8	1,700.4
Wiper Stock	58.8	58.1	77.5	49.7	86.4	(290.0	(281.9
Other Sanitary Tissue	224.2	227.1	213.1	192.2	193.4	(	(
Total All Other Tissue	**196.0**	**153.9**	**150.8**	**151.6**	**177.5**	**160.4**	**143.4**

1/ Excludes Bleached Kraft Envelope Paper 2/ API data R - Revised P - Preliminary

3/ Data after 1983 may not be fully comparable to earlier data because of changes in procedures in calculating the total industry shipments. 4/ Opaque circular paper now included in offset 5/ Includes base stock

NOTE (Census): Current Industrial Report, Pulp, Paper and Board

N.A. - Not Available

TABLE III

PAPERBOARD PRODUCTION 1955-1985

BY END USE

TONS	PAPERBOARD	CONTAINERBOARD-DOMESTIC USE			
YEAR	TOTAL	Total	Linerboard	Corrugating Material	Chip and Filler Boards
1955	14,043,700	7,244,200	4,789,600	2,165,400	289,200
1956	14,371,600	7,451,300	4,933,400	2,249,500	268,400
1957	14,181,900	7,337,200	4,869,700	2,215,600	251,900
1958	14,237,000	7,259,200	4,818,900	2,191,300	249,000
1959	15,972,000	8,232,000	5,475,400	2,498,800	257,800
1960	15,926,500	8,186,600	5,474,800	2,461,000	250,800
1961	16,727,300	8,661,300	5,753,900	2,649,300	258,100
1962	17,847,400	9,299,000	6,216,500	2,822,100	260,400
1963	18,593,600	9,638,300	6,414,000	2,961,800	262,500
1964	19,953,800	10,341,900	6,907,500	3,165,100	269,300
1965	21,331,500	11,199,100	7,480,600	3,438,200	280,300
1966	23,178,600	12,459,600	8,347,300	3,799,800	312,500
1967	22,819,300	12,248,600	8,215,600	3,743,500	289,500
1968	24,903,600	13,388,400	9,043,700	4,061,900	282,800
1969	26,375,700	14,396,400	9,692,500	4,395,400	308,600
1970	25,383,000	13,964,300	9,403,100	4,264,000	297,200
1971	26,037,000	14,353,000	9,530,800	4,519,700	302,500
1972	28,502,500	16,019,000	10,856,500	4,846,500	315,900
1973	29,571,500	16,928,100	11,355,900	5,255,000	317,100
1974	28,914,900	16,767,000	11,305,400	5,179,200	282,300
1975	24,755,700	14,586,200	9,854,200	4,449,300	282,600
1976	28,439,500	16,700,200	11,375,900	5,061,500	262,900
1977	28,953,100	17,167,300	11,695,700	5,207,900	263,700
1978	30,274,900	17,908,200	12,133,700	5,503,100	271,500
1979	31,428,900	18,824,800	12,819,500	5,775,900	229,300
1980	30,952,300	18,070,200	12,393,100	5,445,600	231,500
1981	31,232,200	19,040,000	13,078,500	5,702,100	259,500
1982	29,065,300	17,507,500	11,935,500	5,341,800	230,200
1983	32,176,700	19,173,000	13,124,700	5,838,100	210,200
1984	34,039,300	20,855,100	14,272,500	6,404,200	178,400
1985	33,034,400	20,042,200	13,752,900	6,255,400	33,900*

*Reclassification. Balance of chip board (non-containerboard grades) included in "All Other."

TABLE III (Cont.)

PAPERBOARD PRODUCTION 1955-1985

BY END USE

TONS	BOXBOARD-DOMESTIC USE				ALL OTHER
YEAR	Total	Folding	Set-Up	Milk Carton & Food Service	Total
1955	4,407,400	2,938,800	636,700	831,900	2,392,100
1956	4,530,300	2,970,900	636,700	922,700	2,390,000
1957	4,513,400	3,020,800	568,200	924,400	2,331,300
1958	4,533,300	3,032,500	538,600	962,200	2,444,500
1959	4,911,400	3,285,900	576,100	1,049,400	2,828,600
1960	4,894,900	3,291,200	525,100	1,078,600	2,845,000
1961	5,007,500	3,374,800	496,800	1,135,900	3,058,500
1962	5,265,200	3,501,800	523,800	1,239,600	3,283,200
1963	5,417,200	3,635,800	526,800	1,254,600	3,538,100
1964	5,580,800	3,752,300	534,000	1,294,500	4,031,100
1965	5,811,200	3,879,600	547,300	1,384,300	4,321,200
1966	6,075,900	4,040,300	559,700	1,475,900	4,643,100
1967	5,973,100	4,020,700	496,100	1,456,300	4,597,600
1968	6,334,000	4,218,300	519,500	1,596,200	5,181,200
1969	6,424,800	4,261,600	498,600	1,664,600	5,554,500
1970	6,238,700	4,079,700	466,500	1,692,500	5,180,000
1971	6,233,600	4,139,400	447,900	1,646,300	5,450,400
1972	6,551,000	4,439,800	455,100	1,656,100	5,932,500
1973	6,764,300	4,704,500	465,300	1,594,500	5,879,200
1974	6,399,000	4,426,500	403,600	1,568,900	5,748,900
1975	5,663,800	3,896,400	304,500	1,462,900	4,505,700
1976	6,564,700	4,714,600	331,500	1,518,600	5,174,500
1977	6,332,200	4,546,700	302,500	1,483,100	5,453,500
1978	6,501,200	4,702,400	332,700	1,466,100	5,865,500
1979	6,469,200	4,720,500	306,000	1,442,700	6,135,000
1980	6,153,100	4,489,900	241,500	1,421,700	6,729,000
1981	6,216,100	4,587,600	236,000	1,392,500	5,976,100
1982	5,841,000	4,333,700	223,600	1,283,700	5,716,900
1983	6,261,000	4,646,000	256,300	1,358,800	6,742,700
1984	6,535,600	4,876,000	263,800	1,395,800	6,648,500
1985	6,495,000	4,879,800	234,100	1,381,100	6,497,200

TABLE IV

CONTAINERBOARD PRODUCTION 1955-1985

FOR DOMESTIC USE

TONS

YEAR	CONTAINERBOARD	LINERBOARD		
	TOTAL	Total	Kraft	Recycled
1955	7,244,200	4,789,600	3,947,400	842,200
1956	7,451,300	4,933,400	4,139,600	793,800
1957	7,337,200	4,869,700	4,097,900	771,800
1958	7,259,200	4,818,900	4,110,200	708,700
1959	8,232,000	5,475,400	4,701,000	774,400
1960	8,186,600	5,474,800	4,731,200	743,600
1961	8,661,300	5,753,900	5,095,700	658,200
1962	9,299,000	6,216,500	5,514,700	701,800
1963	9,638,300	6,414,000	5,706,100	707,900
1964	10,341,900	6,907,500	6,188,000	719,500
1965	11,199,100	7,480,600	6,698,100	782,500
1966	12,459,600	8,347,300	7,550,200	797,100
1967	12,248,600	8,215,600	7,693,300	522,300
1968	13,388,400	9,043,700	8,612,200	431,500
1969	14,396,400	9,692,500	9,345,300	347,200
1970	13,964,300	9,403,100	9,133,400	269,700
1971	14,353,000	9,530,800	9,249,100	281,700
1972	16,019,000	10,856,500	10,577,600	278,900
1973	16,928,100	11,355,900	11,066,900	289,100
1974	16,767,000	11,305,400	10,838,400	467,100
1975	14,586,200	9,854,200	9,646,900	207,300
1976	16,700,200	11,375,900	11,093,200	282,700
1977	17,167,300	11,695,700	11,354,400	341,400
1978	17,908,200	12,133,700	11,877,200	256,400
1979	18,824,800	12,819,500	12,417,300	402,300
1980	18,070,200	12,393,100	11,948,600	444,500
1981	19,040,000	13,078,500	12,754,300	324,200
1982	17,507,500	11,935,500	11,656,500	279,000
1983	19,173,000	13,124,700	12,835,600	289,100
1984	20,855,100	14,272,500	14,068,800	203,700
1985	20,042,200	13,752,900	13,467,100	285,800

TABLE IV (Cont.)

CONTAINERBOARD PRODUCTION 1955-1985

FOR DOMESTIC USE

TONS

YEAR	CORRUGATING MATERIAL Total	Semi-Chemical	Recycled	CHIP & FILLER BOARDS Total
1955	2,165,400	1,470,200	695,200	289,200
1956	2,249,500	1,551,700	697,800	268,400
1957	2,215,600	1,557,800	657,800	251,900
1958	2,191,300	1,486,200	705,100	249,000
1959	2,498,800	1,786,100	712,700	257,800
1960	2,461,000	1,788,900	672,100	250,800
1961	2,649,300	2,023,500	625,800	258,100
1962	2,822,100	2,188,800	633,300	260,400
1963	2,961,800	2,287,100	674,700	262,500
1964	3,165,100	2,447,400	717,700	269,300
1965	3,438,200	2,638,200	800,000	280,300
1966	3,799,800	2,909,800	890,000	312,500
1967	3,743,500	2,982,100	761,400	289,500
1968	4,061,900	3,371,200	690,700	282,800
1969	4,395,400	3,617,000	778,400	308,000
1970	4,264,000	3,404,700	859,300	297,200
1971	4,519,700	3,580,200	939,500	302,500
1972	4,846,500	3,874,200	972,300	315,900
1973	5,255,000	4,126,500	1,128,500	317,100
1974	5,179,200	4,010,300	1,169,000	282,300
1975	4,449,300	3,579,400	870,000	282,600
1976	5,061,500	3,986,500	1,075,100	262,900
1977	5,207,900	4,128,200	1,079,700	263,700
1978	5,503,100	4,305,300	1,197,800	271,500
1979	5,775,900	4,573,600	1,202,300	229,300
1980	5,445,600	4,398,500	1,047,100	231,500
1981	5,702,100	4,561,200	1,140,900	259,500
1982	5,341,800	4,202,500	1,139,300	230,200
1983	5,838,100	4,532,700	1,305,400	210,200
1984	6,404,300	5,018,900	1,385,400	178,400
1985	6,255,400	4,896,600	1,358,800	33,900*

*Reclassification. Balance of chipboard (non-containerboard grades) included in "All Other."

TABLE V

BLEACHED PAPERBOARD PRODUCTION 1960 - 1985

TONS

YEAR	Milk Cartons	Folding Cartons	Heavyweight Cup, Rounded Nested Food Containers and Cup Lids	Plate Dish and Tray	Other Packaging Uses*	Linerboard
1960	571,000	745,200	287,400	123,700	136,200	76,000
1961	600,500	797,600	312,900	127,900	146,100	103,500
1962	678,500	865,100	324,400	148,400	139,200	124,200
1963	677,100	943,000	325,300	160,200	153,400	124,200
1964	692,000	988,800	329,200	178,800	182,300	101,100
1965	752,100	1,051,800	339,000	202,100	182,600	75,000
1966	783,200	1,100,700	367,200	232,100	200,400	100,300
1967	772,800	1,133,800	368,600	247,300	171,400	89,500
1968	848,800	1,234,100	412,000	258,900	195,100	104,900
1969	884,600	1,346,000	416,200	282,200	200,900	113,600
1970	940,700	1,265,900	386,900	287,200	221,600	102,800
1971	918,800	1,394,900	366,700	278,100	280,900	108,200
1972	894,400	1,575,700	395,600	315,900	308,700	117,200
1973	871,200	1,730,300	410,400	296,600	348,500	114,400
1974	850,200	1,678,700	415,800	289,800	382,700	92,700
1975	865,800	1,458,000	350,600	234,200	315,800	76,700
1976	822,900	1,799,500	412,300	266,800	402,200	91,400
1977	808,700	1,592,000	401,300	262,400	525,200	80,200
1978	731,200	1,763,400	418,500	307,100	594,900	109,500
1979**	718,700	1,713,600	432,000	274,100	686,900	110,900
1980	677,600	1,574,700	419,500	298,400	739,300	96,300
1981	631,800	1,655,000	441,600	287,400	738,700	100,600
1982	590,500	1,566,900	374,800	274,500	708,200	93,400
1983	606,900	1,724,600	426,400	281,100	700,300	115,000
1984	645,100	1,846,700	416,400	291,100	662,700	118,500
1985	609,000	1,779,600	438,200	284,000	656,400	113,800

* - Includes Exports
** - Starting in 1979 lightweight cup is included with heavyweight cup.

TABLE V (Cont.)

BLEACHED PAPERBOARD PRODUCTION 1960 - 1985

TONS

	SUMMARY OF PACKAGING PAPERBOARD			NON-PKG. USES	BLEACHED PAPERBOARD PRODUCTION
YEAR	Total Packaging Paperboard	Milk Carton and Food Service	Balance of Packaging Uses	Total	TOTAL
1960	1,939,500	1,078,600	860,900	119,700	2,059,200
1961	2,088,500	1,135,900	952,600	151,500	2,240,000
1962	2,279,800	1,239,600	1,040,200	173,600	2,453,400
1963	2,383,200	1,254,600	1,128,600	181,800	2,565,000
1964	2,472,200	1,294,500	1,177,700	220,800	2,693,000
1965	2,602,600	1,384,300	1,218,300	244,400	2,847,000
1966	2,783,900	1,475,900	1,308,000	301,400	3,085,300
1967	2,783,400	1,456,300	1,327,100	273,800	3,057,200
1968	3,053,800	1,596,200	1,457,600	314,100	3,367,900
1969	3,243,500	1,664,600	1,578,900	316,400	3,559,900
1970	3,205,100	1,692,500	1,512,600	167,800	3,372,900
1971	3,347,600	1,646,300	1,701,300	60,500	3,408,100
1972	3,607,500	1,656,100	1,951,400	101,800	3,709,300
1973	3,771,400	1,594,500	2,176,900	81,500	3,852,900
1974	3,709,800	1,568,900	2,140,900	59,500	3,769,300
1975	3,301,000	1,462,900	1,838,200	40,300	3,341,400
1976	3,795,200	1,518,600	2,276,600	43,400	3,838,500
1977	3,669,700	1,483,100	2,186,600	47,300	3,717,000
1978	3,924,700	1,466,100	2,458,600	47,700	3,972,400
1979	3,936,200	1,442,700	2,493,500	61,900	3,998,100
1980	3,806,000	1,421,700	2,384,300	56,200	3,862,300
1981	3,855,100	1,392,500	2,462,600	54,800	3,909,900
1982	3,608,400	1,283,700	2,324,700	56,400	3,664,700
1983	3,854,300	1,358,800	2,495,500	71,600	3,925,800
1984	3,980,600	1,395,800	2,584,800	67,600	4,048,300
1985	3,881,000	1,381,100	2,499,900	67,400	3,948,400

TABLE VI

PAPERBOARD PRODUCTION BY REGION

1965 - 1985

TONS

	PAPERBOARD	CONTAINERBOARD-DOMESTIC			
YEAR	TOTAL	Total	Linerboard	Corrugating Material	Container Chip & Filler Boards
NORTH EASTERN					
1965	2,874,700	710,800	192,700	481,100	37,000
1966	2,992,100	767,700	208,100	521,400	38,200
1967	2,810,100	695,200	121,500	539,000	34,700
1968	2,820,900	675,700	100,900	534,600	40,200
1969	2,769,600	687,000	83,000	559,200	34,800
1970	2,627,800	653,400	60,100	556,600	36,700
1971	2,525,300	634,800	54,400	551,100	29,300
1972	2,622,700	645,800	54,700	562,300	28,800
1973	2,733,800	725,300	56,900	615,300	53,100
1974	2,677,500	852,100	152,700	642,000	57,400
1975	2,052,000	536,400	35,200	445,400	55,800
1976	2,255,000	566,200	70,800	448,200	47,200
1977	2,247,100	562,800	70,800	446,600	45,500
1978	2,284,400	561,300	37,400	470,200	53,700
1979	2,259,800	564,200	61,400	456,700	46,100
1980	2,042,800	486,900	27,300	415,200	44,400
1981	1,867,700	369,900	-	328,500	41,400
1982	1,651,800	342,700	10,800	295,600	36,400
1983	1,891,100	380,300	45,600	317,800	16,900
1984	1,835,300	362,400	-	346,000	16,400
1985	1,880,400	333,300	-	327,300	6,000*
SOUTHERN					
1965	11,270,100	6,680,400	5,330,100	1,318,300	32,000
1966	12,379,900	7,362,500	5,852,500	1,468,800	41,200
1967	12,537,100	7,435,600	5,964,900	1,435,600	35,100
1968	14,081,800	8,313,400	6,740,600	1,538,200	34,600
1969	15,433,100	9,181,100	7,488,200	1,651,400	41,500
1970	15,078,400	8,961,400	7,306,700	1,618,400	36,300
1971	15,782,300	9,330,600	7,507,500	1,789,600	33,500
1972	17,484,000	10,671,200	8,658,700	1,988,000	24,500
1973	18,179,900	11,257,000	9,083,700	2,158,900	14,400
1974	17,878,400	11,006,800	8,883,300	2,111,000	12,400
1975	15,752,600	9,882,100	7,957,700	1,860,900	63,400
1976	18,121,100	11,400,600	9,178,200	2,181,400	41,100
1977	18,223,100	11,541,000	9,299,000	2,199,400	42,700
1978	19,540,200	12,268,700	9,890,100	2,331,500	47,100
1979	20,219,100	12,692,100	10,280,500	2,376,900	34,700
1980	20,192,200	12,119,900	9,897,500	2,196,400	26,000
1981	20,442,000	12,863,000	10,527,900	2,301,000	34,100
1982	19,242,700	11,872,500	9,682,400	2,157,400	32,700
1983	20,930,300	12,864,200	10,546,400	2,280,500	37,300
1984	22,275,100	14,143,500	11,536,900	2,568,100	38,500
1985	21,464,100	13,606,500	11,068,800	2,536,200	1,500*

NOTE: Exports are included in "All Other"
NOTE: Detail does not necessarily add to totals due to rounding.

*Reclassification. Balance of chipboard (non-containerboard grades) included in "All Other."

TABLE VI (Cont.)

PAPERBOARD PRODUCTION BY REGION

1965 - 1985

TONS

	BOXBOARD-DOMESTIC				ALL OTHER
YEAR	Total	Folding	Set-Up	Milk Carton & Food Service	Total
NORTH EASTERN					
1965	1,293,000	972,100	248,800	72,100	870,900
1966	1,302,900	989,600	246,000	67,300	921,500
1967	1,233,600	954,800	214,800	64,000	881,300
1968	1,274,200	991,100	220,900	62,200	871,000
1969	1,178,800	911,900	202,200	64,700	903,800
1970	1,108,100	851,100	194,100	62,900	866,300
1971	1,003,900	767,100	176,200	60,600	886,600
1972	1,020,900	788,400	181,300	51,100	956,100
1973	961,900	752,200	181,000	28,700	1,046,700
1974	861,600	679,800	154,200	27,600	963,800
1975	724,400	582,000	116,500	26,000	791,200
1976	841,000	690,800	120,900	29,400	847,900
1977	865,000	735,400	102,500	27,200	819,300
1978	861,000	723,300	112,700	25,000	862,100
1979	840,900	721,900	85,500	33,500	854,700
1980	787,800	680,400	72,300	35,100	768,000
1981	780,100	687,900	63,400	28,800	717,700
1982	678,000	593,300	59,400	25,400	631,000
1983	730,900	631,000	74,100	25,800	779,900
1984	710,100	614,200	71,200	24,700	762,800
1985	693,300	607,000	64,700	21,600	853,800
SOUTHERN					
1965	2,428,400	1,216,200	122,300	1,089,900	2,161,300
1966	2,649,200	1,309,900	128,400	1,210,900	2,368,200
1967	2,666,500	1,385,000	114,100	1,167,400	2,435,000
1968	2,944,000	1,490,200	127,800	1,326,000	2,824,400
1969	3,163,200	1,634,600	122,600	1,406,000	3,088,800
1970	3,166,000	1,628,800	113,300	1,423,900	2,951,000
1971	3,320,500	1,784,600	105,300	1,430,600	3,131,200
1972	3,519,300	1,964,100	108,400	1,446,800	3,293,600
1973	3,776,400	2,244,400	118,000	1,414,000	3,146,500
1974	3,660,200	2,168,400	105,000	1,386,800	3,211,400
1975	3,352,700	2,000,100	89,500	1,263,000	2,517,800
1976	3,931,400	2,500,700	99,800	1,330,800	2,789,100
1977	3,700,600	2,316,700	96,700	1,287,300	2,981,400
1978	3,939,800	2,534,200	104,500	1,301,100	3,331,700
1979	3,974,000	2,592,700	104,500	1,276,800	3,553,000
1980	3,149,900	1,795,200	100,400	1,254,400	4,922,400
1981	3,201,000	1,863,000	105,300	1,232,700	4,378,100
1982	3,012,800	1,761,300	94,500	1,157,000	4,357,400
1983	3,264,500	1,957,900	98,800	1,207,800	4,801,600
1984	3,429,800	2,083,000	107,300	1,239,500	4,701,800
1985	3,352,600	2,041,800	92,400	1,218,400	4,505,000

NOTE: Exports are included in "All Other"
NOTE: Detail does not necessarily add to totals due to rounding.
NOTE: For this Table unbleached kraft folding has been included in the "All Other" domestic data.

TABLE VI (Cont.)

PAPERBOARD PRODUCTION BY REGION

1965 - 1985

TONS

YEAR	PAPERBOARD TOTAL	CONTAINERBOARD - DOMESTIC			
		Total	Linerboard	Corrugating Material	Container Chip & Filler Boards
NORTH CENTRAL					
1965	4,031,600	1,796,600	408,700	1,203,800	184,100
1966	4,191,700	1,880,100	400,700	1,282,600	196,800
1967	3,928,600	1,677,600	252,600	1,240,100	184,900
1968	4,174,400	1,802,200	190,100	1,431,400	180,700
1969	4,272,100	1,916,600	160,200	1,539,300	217,200
1970	3,936,000	1,788,900	110,300	1,471,000	207,600
1971	4,041,100	1,854,000	101,800	1,534,100	218,100
1972	4,245,500	1,926,000	106,400	1,597,400	222,200
1973	4,360,400	2,031,900	111,000	1,697,300	223,600
1974	4,186,500	2,005,700	176,600	1,637,900	191,200
1975	3,367,200	1,655,400	63,900	1,448,600	142,900
1976	3,928,000	1,869,900	57,000	1,663,900	148,900
1977	4,091,700	2,010,300	117,200	1,734,300	158,800
1978	4,164,200	2,127,500	98,600	1,870,400	158,500
1979	4,352,900	2,334,900	165,800	2,029,300	139,800
1980	4,137,600	2,271,100	191,400	1,943,500	136,100
1981	4,288,300	2,417,000	143,300	2,124,800	148,800
1982	3,979,300	2,210,000	103,900	1,984,300	121,800
1983	4,396,700	2,413,300	60,800	2,227,000	125,500
1984	4,770,400	2,600,900	75,300	2,409,600	116,000
1985	4,568,300	2,441,200	86,800	2,333,400	21,000*
PACIFIC COAST					
1965	3,155,100	2,011,400	1,549,000	435,100	27,300
1966	3,614,900	2,449,300	1,886,000	527,100	36,300
1967	3,543,500	2,440,300	1,876,600	528,900	34,800
1968	3,826,500	2,597,100	2,012,000	557,800	27,300
1969	3,900,900	2,611,800	1,961,100	635,600	15,100
1970	3,740,800	2,560,600	1,926,000	618,000	16,600
1971	3,688,300	2,533,600	1,867,000	644,900	21,600
1972	4,150,200	2,776,000	2,036,800	698,800	40,400
1973	4,297,500	2,914,000	2,104,400	783,500	16,100
1974	4,172,500	2,902,400	2,092,900	788,300	21,200
1975	3,583,900	2,512,300	1,797,400	694,400	20,500
1976	4,135,300	2,863,500	2,069,900	768,000	25,600
1977	4,391,300	3,053,100	2,208,800	827,600	16,800
1978	4,286,200	2,950,800	2,107,500	831,000	12,300
1979	4,597,200	3,233,600	2,311,800	913,000	8,800
1980	4,579,700	3,192,300	2,276,800	890,500	25,000
1981	4,634,300	3,390,200	2,407,300	947,800	35,100
1982	4,191,700	3,082,400	2,138,500	904,600	39,300
1983	4,958,600	3,515,100	2,471,800	1,012,800	30,500
1984	5,158,300	3,748,200	2,660,300	1,080,506	7,400
1985	5,121,600	3,661,200	2,597,300	1,058,500	5,400*

NOTE: Exports are included in "All Other"
NOTE: Detail does not necessarily add to totals due to rounding.

*Reclassification. Balance of chipboard (non-containerboard grades) included in "All Other."

TABLE VI (Cont.)

PAPERBOARD PRODUCTION BY REGION

1965 - 1985

TONS

YEAR	BOXBOARD-DOMESTIC Total	BOXBOARD-DOMESTIC Folding	BOXBOARD-DOMESTIC Set-Up	BOXBOARD-DOMESTIC Milk Carton & Food Service	ALL OTHER Total
NORTH CENTRAL					
1965	1,517,300	1,288,600	150,000	78,700	717,700
1966	1,541,900	1,316,300	160,300	65,300	769,700
1967	1,489,300	1,288,300	140,800	60,200	761,700
1968	1,489,100	1,295,100	150,200	43,800	883,100
1969	1,458,000	1,279,300	154,100	24,600	897,500
1970	1,338,300	1,194,300	133,500	10,500	808,800
1971	1,345,500	1,195,800	140,900	8,800	841,600
1972	1,396,300	1,246,000	141,800	8,500	923,200
1973	1,379,400	1,236,300	142,700	400	949,200
1974	1,262,300	1,137,600	124,600	100	918,500
1975	1,018,400	937,200	80,600	600	693,400
1976	1,177,900	1,089,800	88,000	100	880,200
1977	1,165,200	1,077,500	87,700	-	916,200
1978	1,123,900	1,031,800	92,100	-	912,800
1979	1,105,500	1,009,700	95,800	-	912,500
1980	1,030,600	978,200	52,500	-	835,900
1981	1,062,300	1,011,800	50,500	-	809,000
1982	1,035,100	984,200	50,900	-	734,200
1983	1,112,100	1,049,800	62,300	-	871,300
1984	1,176,000	1,104,900	71,100	-	993,500
1985	1,156,900	1,090,100	66,800	-	970,200
PACIFIC COAST					
1965	572,600	402,800	26,200	143,600	571,100
1966	582,000	424,500	25,000	132,500	583,600
1967	583,600	392,600	26,300	164,700	519,600
1968	626,800	442,000	20,600	164,200	602,600
1969	624,800	435,800	19,700	169,300	664,300
1970	626,200	405,400	25,500	195,300	554,000
1971	563,700	391,900	25,400	146,400	591,000
1972	614,700	441,300	23,600	149,800	759,600
1973	646,600	471,600	23,600	151,400	736,900
1974	615,000	440,800	19,900	154,300	655,100
1975	568,300	377,200	17,800	173,300	503,300
1976	614,500	433,300	22,800	158,400	657,300
1977	601,400	417,100	15,700	168,600	736,800
1978	576,500	413,100	23,400	140,000	759,000
1979	548,800	396,200	20,200	132,400	814,800
1980	504,400	355,700	16,400	132,300	883,000
1981	500,900	353,100	16,700	131,100	743,100
1982	424,500	304,400	18,800	101,300	684,800
1983	443,500	297,200	21,100	125,200	1,000,000
1984	467,300	321,500	14,200	131,600	942,800
1985	470,500	319,200	10,200	141,100	989,900

NOTE: Exports are included in "All Other"
NOTE: Detail does not necessarily add to totals due to rounding
NOTE: For this Table unbleached kraft folding has been included in the "All Other" domestic data.

TABLE VII

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1968 - 1985

TONS

	CONTAINERBOARD - DOMESTIC				BOXBOARD - DOMESTIC		
YEAR	Total	Linerboard	Corrugating Material	Container Chip & Filler Board	Total	Folding	Set-Up
Total Paperboard							
1968	13,388,400	9,043,700	4,061,900	282,800	6,334,000	4,218,300	519,500
1969	14,396,500	9,692,500	4,395,400	308,600	6,424,800	4,261,600	498,600
1970	13,964,300	9,403,100	4,264,000	297,200	6,238,700	4,079,700	466,500
1971	14,353,000	9,530,800	4,519,700	302,500	6,233,600	4,139,400	447,900
1972	16,018,900	10,856,500	4,846,500	315,900	6,551,000	4,439,800	455,100
1973	16,928,100	11,355,900	5,255,000	317,100	6,764,300	4,704,500	465,300
1974	16,767,000	11,305,400	5,179,200	282,300	6,399,000	4,426,500	403,600
1975	14,586,200	9,854,200	4,449,300	282,600	5,663,800	3,896,400	304,500
1976	16,700,200	11,375,900	5,061,500	262,900	6,564,700	4,714,600	331,500
1977	17,167,300	11,695,700	5,207,900	263,700	6,332,200	4,546,700	302,500
1978	17,908,200	12,133,700	5,503,100	271,500	6,501,200	4,702,400	332,700
1979	18,824,800	12,819,600	5,775,900	229,300	6,469,200	4,720,500	306,000
1980	18,070,200	12,393,100	5,445,600	231,500	6,153,100	4,489,900	241,500
1981	19,040,000	13,078,500	5,702,100	259,500	6,216,100	4,587,600	236,000
1982	17,507,600	11,935,500	5,341,800	230,200	5,841,000	4,333,700	223,600
1983	19,173,000	13,124,700	5,838,100	210,200	6,261,000	4,646,000	256,300
1984	20,855,100	14,272,500	6,404,200	178,400	6,535,600	4,876,000	263,800
1985	20,042,200	13,752,900	6,255,400	33,900*	6,495,000	4,879,800	234,100
Unbleached Kraft							
1968	8,535,500	8,511,400	7,400	16,700	261,000	261,000	-
1969	9,242,100	9,210,700	8,100	23,300	287,200	287,200	-
1970	9,043,900	9,014,600	3,800	25,500	343,400	343,400	-
1971	9,155,300	9,124,700	1,100	29,500	339,600	339,600	-
1972	10,469,900	10,447,800	-	22,100	389,700	389,700	-
1973	10,951,600	10,939,100	2,300	10,200	454,800	454,800	-
1974	10,754,200	10,739,000	3,800	11,500	469,700	469,700	-
1975	9,586,000	9,565,200	8,700	12,100	463,000	463,000	-
1976	11,023,900	10,993,700	20,200	10,100	577,500	577,500	-
1977	11,283,000	11,269,400	-	13,600	588,000	588,000	-
1978	11,779,700	11,761,600	-	18,100	617,600	617,600	-
1979	12,306,400	12,306,400	-	-	698,400	698,400	-
1980	11,852,300	11,852,300	-	-	680,400	680,400	-
1981	12,653,700	12,653,700	-	-	671,900	671,900	-
1982	11,563,100	11,563,100	-	-	690,600	690,600	-
1983	12,720,600	12,720,600	-	-	710,100	710,100	
1984	13,950,300	13,950,300	-	-	752,400	752,400	-
1985	13,353,300	13,353,300	-	-	821,700	821,700	-
Semichemical							
1968	3,366,600	-	3,363,800	2,800	-	-	-
1969	3,611,100	-	3,608,900	2,200	-	-	-
1970	3,400,900	-	3,400,900	-	-	-	-
1971	3,579,100	-	3,579,100	-	-	-	-
1972	3,874,200	-	3,874,200	-	-	-	-
1973	4,124,300	-	4,124,300	-	-	-	-
1974	4,006,500	-	4,006,500	-	-	-	-
1975	3,570,600	-	3,570,600	-	-	-	-
1976	3,966,300	-	3,966,300	-	-	-	-
1977	4,128,200	-	4,128,200	-	-	-	-
1978	4,305,300	-	4,305,300	-	-	-	-
1979	4,573,600	-	4,573,600	-	-	-	-
1980	4,398,500	-	4,398,500	-	-	-	-
1981	4,561,200	-	4,561,200	-	-	-	-
1982	4,202,500	-	4,202,500	-	-	-	-
1983	4,532,700	-	4,532,700	-	-	-	-
1984	5,018,900	-	5,018,900	-	-	-	-
1985	4,896,600	-	4,896,600	-	-	-	-

NOTE: Details do not necessarily add to total due to rounding. - Represents zero

* Reclassification. Balance of chipboard (non-containerboard grades) included in "All Other."

TABLE VII (Cont.)

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1968 - 1985

TONS

	BOXBOARD (Cont.)	ALL OTHER (Exc. Exports)				EXPORTS	ALL GRADES
YEAR	Milk Carton & Food Service	TOTAL	Gypsum Wallboard Facings	Tube, Can and Drum	Balance of All Other	Total	Total
Total Paperboard							
1968	1,596,200	3,585,200	784,000	779,900	2,021,300	1,596,000	24,903,600
1969	1,664,600	3,694,400	822,600	860,500	2,011,300	1,860,100	26,375,700
1970	1,692,500	3,280,700	775,700	887,300	1,617,700	1,899,400	25,383,000
1971	1,646,300	3,335,000	935,700	925,700	1,473,500	2,115,400	26,037,000
1972	1,656,100	3,701,100	1,016,600	1,065,500	1,619,000	2,231,400	28,502,500
1973	1,594,900	3,864,900	1,050,300	1,145,400	1,668,200	2,015,200	29,571,400
1974	1,568,900	3,599,400	984,200	1,128,500	1,486,800	2,149,500	28,914,900
1975	1,462,900	3,052,200	893,800	907,500	1,250,900	1,453,500	24,755,700
1976	1,518,600	3,465,300	984,500	1,016,500	1,464,300	1,709,200	28,439,500
1977	1,483,100	3,623,100	1,056,800	1,075,900	1,490,400	1,830,500	28,953,100
1978	1,466,100	3,825,500	1,094,000	1,163,000	1,568,500	2,040,000	30,274,900
1979	1,442,700	3,873,000	1,179,900	1,177,200	1,515,900	2,262,000	31,428,900
1980	1,421,700	3,394,800	918,800	1,077,600	1,398,400	3,334,100	30,952,300
1981	1,392,500	3,354,000	887,600	1,114,600	1,351,700	2,622,000	31,232,200
1982	1,283,700	3,063,000	805,200	1,046,200	1,211,700	2,653,800	29,065,300
1983	1,358,800	3,730,600	1,053,800	1,210,800	1,466,000	3,012,100	32,176,700
1984	1,395,800	3,917,200	1,125,200	1,254,900	1,537,100	2,731,300	34,039,300
1985	1,381,100	3,985,800	1,160,200	1,212,600	1,613,000	2,511,400	33,034,400
Unbleached Kraft							
1968	-	584,600	-	175,400	409,200	1,380,700	10,761,800
1969	-	604,200	-	187,300	416,900	1,682,800	11,816,300
1970	-	470,400	-	175,400	295,000	1,683,400	11,541,100
1971	-	470,900	-	194,500	276,400	1,834,300	11,800,100
1972	-	521,500	-	223,200	298,300	1,887,500	13,268,700
1973	-	559,300	-	226,200	333,100	1,596,700	13,562,500
1974	-	526,300	-	231,000	295,200	1,582,700	13,332,900
1975	-	435,900	-	175,900	260,000	1,058,000	11,542,800
1976	-	483,500	-	217,500	266,000	1,247,300	13,332,200
1977	-	490,300	-	227,800	262,500	1,289,600	13,650,800
1978	-	508,900	-	250,600	258,300	1,466,300	14,372,500
1979	-	500,800	-	267,000	233,800	1,645,300	15,151,000
1980	-	382,800	-	226,400	156,400	2,379,800	15,295,200
1981	-	390,200	-	219,300	170,900	1,886,600	15,602,400
1982	-	349,700	-	192,900	156,800	1,931,400	14,534,800
1983	-	416,000	-	204,300	206,600	2,280,700	16,122,300
1984	-	396,300	-	191,600	204,700	2,086,400	17,185,400
1985	-	362,600	-	164,200	198,400	1,830,000	16,367,600
Semichemical							
1968	-	14,400	-	12,300	2,100	94,000	3,475,000
1969	-	33,000	-	13,500	19,500	52,400	3,696,500
1970	-	33,200	-	23,700	9,500	84,300	3,518,400
1971	-	16,900	-	14,100	2,800	104,000	3,700,000
1972	-	23,600	-	17,700	5,900	111,700	4,009,600
1973	-	28,600	-	18,300	10,300	107,400	4,260,300
1974	-	23,300	-	17,400	6,000	145,500	4,175,400
1975	-	15,900	-	14,000	1,900	115,400	3,701,800
1976	-	19,300	-	18,100	1,200	119,300	4,105,000
1977	-	14,300	-	14,300		121,900	4,264,400
1978	-	14,800	-	14,600	200	119,200	4,439,300
1979	-	17,400	-	10,800	6,600	98,200	4,689,100
1980	-	2,700	-	2,400	300	322,300	4,723,500
1981	-	2,700	-	2,600	100	155,200	4,719,200
1982	-	1,800	-	1,300	500	184,900	4,389,300
1983	-	5,100	-	-	5,100	192,600	4,730,400
1984	-	1,000	-	-	1,000	149,200	5,169,000
1985	-	2,000	-	-	2,000	189,400	5,088,000

NOTE: Details do not necessarily add to total due to rounding.
- Represents zero.

TABLE VII (Cont.)

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1968 - 1985

TONS

	CONTAINERBOARD - DOMESTIC				BOXBOARD - DOMESTIC		
YEAR	Total	Linerboard	Corrugating Material	Container Chip & Filler Board	Total	Folding	Set-Up
Solid Bleached							
1968	125,000	125,000	-	-	2,773,900	1,226,900	-
1969	134,700	134,700	-	-	2,970,300	1,345,900	-
1970	118,800	118,800	-	-	2,912,300	1,263,300	-
1971	124,400	124,400	-	-	2,996,400	1,392,100	-
1972	129,800	129,800	-	-	3,196,300	1,572,800	-
1973	127,700	127,700	-	-	3,322,600	1,728,200	-
1974	99,400	99,400	-	-	3,244,600	1,675,900	-
1975	81,800	81,800	-	-	2,917,700	1,455,600	-
1976	99,500	99,500	-	-	3,315,700	1,797,200	-
1977	85,000	85,000	-	-	3,074,500	1,591,500	
1978	115,700	115,700	-	-	3,229,500	1,763,400	-
1979	110,900	110,900	-	-	3,156,200	1,713,600	-
1980	96,300	96,300	-	-	2,996,400	1,574,700	-
1981	100,600	100,600	-	-	3,047,500	1,655,000	-
1982	93,400	93,400	-	-	2,850,600	1,566,900	-
1983	115,000	115,000	-	-	3,083,400	1,724,600	
1984	118,500	118,500	-	-	3,242,400	1,846,700	-
1985	113,800	113,800	-	-	3,160,700	1,779,600	-
Recycled							
1968	1,361,300	407,300	690,700	263,300	3,299,100	2,730,400	519,500
1969	1,408,600	347,100	778,400	283,100	3,167,300	2,628,500	498,600
1970	1,400,700	269,700	859,300	271,800	2,983,000	2,473,000	466,500
1971	1,494,100	281,700	939,500	272,900	2,897,700	2,407,700	447,900
1972	1,545,000	278,900	972,300	293,800	2,964,900	2,477,200	455,100
1973	1,724,500	289,100	1,128,500	306,900	2,987,000	2,521,600	465,300
1974	1,906,800	467,100	1,169,000	270,800	2,684,800	2,280,900	403,600
1975	1,347,700	207,300	870,000	270,400	2,283,200	1,977,900	304,500
1976	1,610,500	282,700	1,075,100	252,800	2,671,600	2,340,000	331,500
1977	1,671,100	341,400	1,079,700	250,100	2,669,700	2,367,200	302,500
1978	1,707,600	256,400	1,197,800	253,400	2,654,100	2,321,400	332,700
1979	1,833,900	402,300	1,202,300	229,300	2,614,500	2,308,500	306,000
1980	1,723,100	444,500	1,047,100	231,500	2,476,300	2,234,800	241,500
1981	1,724,500	324,200	1,140,800	259,500	2,496,800	2,260,800	236,000
1982	1,648,500	279,000	1,139,300	230,200	2,299,800	2,076,200	223,600
1983	1,804,700	289,100	1,305,400	210,200	2,467,600	2,211,300	256,300
1984	1,767,500	203,700	1,385,400	178,400	2,540,700	2,276,900	263,800
1985	1,678,500	285,800	1,358,800	33,900*	2,512,600	2,278,500	234,100

NOTE: Details do not necessarily add to total due to rounding.
- Represents zero

*Reclassification. Balance of chipboard (non-containerboard grades) included in "All Other."

TABLE VII (Cont.)

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1968 - 1985

TONS

	BOXBOARD (Cont.)	ALL OTHER (Exc. Exports)				EXPORTS	ALL GRADES
YEAR	Milk Carton & Food Service	TOTAL	Gypsum Wallboard Facings	Tube, Can and Drum	Balance of All Other	Total	TOTAL
Solid Bleached							
1968	1,547,000	316,400	-	7,800	308,600	108,500	3,323,800
1969	1,624,400	327,700	-	8,300	319,400	108,100	3,540,800
1970	1,649,000	197,400	-	-	197,400	114,400	3,342,900
1971	1,604,300	104,000	-	-	104,000	156,500	3,381,300
1972	1,623,500	142,500	-	-	142,500	217,800	3,686,400
1973	1,594,400	133,500	-	-	133,500	280,300	3,864,000
1974	1,568,700	108,900	-	-	108,900	320,200	3,773,100
1975	1,462,100	87,500	-	-	87,500	256,200	3,343,300
1976	1,518,500	122,900	-	-	122,900	306,100	3,844,100
1977	1,483,100	172,400	-	-	172,400	389,400	3,721,300
1978	1,466,100	200,500	-	-	200,500	432,900	3,978,600
1979	1,442,700	234,300	-	-	234,300	496,700	3,998,100
1980	1,421,700	220,100	-	-	220,100	549,400	3,862,300
1981	1,392,500	205,300	-	-	205,300	556,600	3,909,900
1982	1,283,700	196,000	-	-	196,000	524,700	3,664,700
1983	1,358,800	213,000	-	-	213,000	514,500	3,925,800
1984	1,395,800	209,000	-	-	209,000	478,300	4,048,300
1985	1,381,100	208,300	-	-	208,300	465,600	3,948,400
Recycled							
1968	49,200	2,669,800	784,000	584,400	1,301,400	12,800	7,343,000
1969	40,200	2,729,500	822,600	651,400	1,255,500	16,800	7,322,300
1970	43,500	2,579,600	775,700	688,200	1,115,800	17,300	6,980,500
1971	42,100	2,743,100	935,700	717,100	1,090,300	20,600	7,155,500
1972	32,600	3,013,400	1,016,600	824,600	1,172,200	14,400	7,537,800
1973	100	3,142,500	1,050,300	900,900	1,191,300	30,800	7,884,600
1974	200	2,941,000	984,200	880,100	1,076,700	101,000	7,633,500
1975	800	2,512,900	893,800	717,600	901,500	23,900	6,167,700
1976	100	2,839,600	984,500	780,900	1,074,200	36,500	7,158,100
1977	-	2,946,100	1,056,800	833,700	1,055,500	29,600	7,316,500
1978	-	3,101,400	1,094,000	897,900	1,109,500	21,600	7,484,500
1979	-	3,120,500	1,179,900	899,400	1,041,220	21,800	7,590,700
1980	-	2,789,300	918,800	848,900	1,021,600	82,600	7,071,300
1981	-	2,755,700	887,600	892,700	975,300	23,800	7,000,700
1982	-	2,515,400	805,200	852,000	858,300	12,700	6,476,500
1983	-	3,101,600	1,053,800	1,006,500	1,041,300	24,300	7,398,200
1984	-	3,310,800	1,125,200	1,063,300	1,122,300	17,400	7,636,500
1985	-	3,412,900	1,160,200	1,048,400	1,204,300	26,400	7,630,400

NOTE: Details do not necessarily add to total due to rounding.
- Represents zero.

TABLE VIII

PAPERBOARD PRODUCTION

BY MONTHS

1985

TONS

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
Containerboard-Domestic Use	1,767,100	1,583,000	1,814,700	1,599,600	1,694,000	1,595,400
Linerboard	1,238,200	1,086,300	1,275,300	1,087,100	1,175,000	1,074,700
Kraft	1,210,700	1,069,500	1,249,100	1,060,200	1,148,100	1,054,100
Recycled	27,500	16,800	26,200	26,900	26,900	20,600
Corrugating	526,500	491,500	533,200	510,500	516,700	519,300
Semichemical	417,900	384,100	412,300	411,400	411,700	402,000
Recycled	108,600	107,400	120,900	99,100	105,000	117,300
Container Chip	2,400	5,200	6,200	2,000	2,300	1,400
Boxboard-Domestic Use	475,400	468,100	502,600	489,000	453,800	463,100
Folding	341,000	329,500	358,300	343,100	320,100	329,400
Set-Up	21,400	19,100	21,100	20,500	18,200	17,400
Milk Carton & Food Service	113,000	119,500	123,200	125,400	115,500	116,300
All Other	573,500	542,400	617,000	606,200	620,800	642,000
Domestic	393,000	359,200	408,900	391,500	413,300	423,100
Export	180,500	183,200	208,100	214,700	207,500	218,900
TOTAL PAPERBOARD	2,816,000	2,593,500	2,934,300	2,694,800	2,768,600	2,700,500

NOTE: Totals do not add due to rounding.
NOTE: For this table unbleached kraft folding has been included in the "All Other" domestic data.

TABLE IX

BOX PLANT CONSUMPTION

BY MONTHS

1985

TONS

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
Linerboard and Corrugating Material	1,732,200	1,526,600	1,637,400	1,696,400	1,668,900	1,583,900
Total Containerboard	1,736,600	1,529,700	1,639,600	1,698,800	1,670,800	1,585,600

SOURCE: Box Plant Consumption - Fibre Box Association

TABLE VIII (Cont.)

PAPERBOARD PRODUCTION

BY MONTHS

1985

TONS

	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Containerboard-Domestic	1,592,600	1,711,200	1,697,800	1,760,100	1,632,300	1,594,400	20,042,200
Linerboard	1,085,300	1,157,000	1,173,200	1,196,900	1,108,000	1,095,900	13,752,900
Kraft	1,063,900	1,136,100	1,154,500	1,174,600	1,081,900	1,064,400	13,467,100
Recycled	21,400	20,900	18,700	22,300	26,100	31,500	285,800
Corrugating	504,400	551,400	522,300	560,500	522,100	497,000	6,255,400
Semichemical	397,900	428,400	404,900	438,100	402,900	385,000	4,896,600
Recycled	106,500	123,000	117,400	122,400	119,200	112,000	1,358,800
Container Chip	~~2,900~~	2,800	2,300	2,700	2,200	1,500	33,900
Boxboard-Domestic	444,500	511,700	451,300	491,500	471,000	451,300	5,673,300
Folding	309,500	361,600	320,600	367,200	353,400	324,400	4,058,100
Set-Up	17,500	22,300	19,500	21,300	18,600	17,200	234,100
Milk Carton & Food Service	117,500	127,800	111,200	103,000	99,000	109,700	1,381,100
All Other	620,200	653,000	607,800	642,100	613,400	580,500	7,318,900
Domestic	398,000	424,900	406,000	419,200	400,700	369,700	4,807,500
Export	222,200	228,100	201,800	222,900	212,700	210,800	2,511,400
TOTAL PAPERBOARD	2,657,300	2,875,900	2,756,900	2,893,700	2,716,700	2,626,200	33,034,400

NOTE: Totals do not add due to rounding.
NOTE: For this table unbleached kraft folding has been included in the "All Other" domestic data.

TABLE IX (Cont.)

BOX PLANT CONSUMPTION

BY MONTHS

1985

TONS

	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Linerboard and Corrugating Material	1,668,000	1,722,900	1,669,100	1,928,300	1,544,500	1,493,800	19,872,000
Total Containerboard	1,670,000	1,725,100	1,671,700	1,931,100	1,546,900	1,496,600	19,902,500

SOURCE: Box Plant Consumption - Fibre Box Association

TABLE X

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

1959-1985

000 Short Tons	**1959**	**1960**	**1961**	**1962**	**1963**	**1964**
Production - Total	**33,748**	**33,904**	**35,178**	**37,062**	**38,647**	**40,962**
Total Paper	15,025	15,295	15,821	16,560	17,320	18,112
Total Paperboard	15,972	15,926	16,727	17,847	18,594	19,954
Unbleached Kraft	5,214	5,342	5,814	6,316	6,750	7,600
Semichemical	1,774	1,791	2,017	2,198	2,304	2,481
Bleached Kraft	2,000	2,039	2,218	2,429	2,539	2,666
Recycled	6,984	6,754	6,678	6,905	7,001	7,207
Wet Machine Board	145	175	155	146	141	148
Building Paper	1,435	1,410	1,391	1,429	1,453	1,533
Insulating Board	1,171	1,098	1,084	1,080	1,139	1,215
New Supply						
Total Paper	20,120	20,490	20,928	21,781	22,475	23,748
Newsprint	7,118	7,329	7,294	7,460	7,498	8,051
Printing/Writing Papers	6,863	7,077	7,329	7,772	8,153	8,655
Uncoated Groundwood	933	960	933	942	990	1,053
Coated	1,967	2,096	2,138	2,266	2,398	2,572
Uncoated Free Sheet	3,051	3,076	3,239	3,431	3,609	3,824
Thin and Cotton Fiber	244	251	260	290	287	301
Bleached Bristols	668	694	759	843	869	905
Packaging and Ind. Conv. Papers	4,023	3,893	3,997	4,143	4,258	4,316
Unbleached Kraft	2,796	2,730	2,767	2,889	3,024	3,038
Other	1,227	1,163	1,230	1,254	1,234	1,278
Tissue	2,116	2,191	2,305	2,406	2,566	2,725
Total Paperboard	15,604	15,475	16,201	17,312	17,941	18,976
Unbleached Kraft	4,902	4,970	5,417	5,890	6,254	6,843
Semichemical	1,753	1,760	1,955	2,154	2,221	2,374
Bleached Board	1,983	2,016	2,186	2,396	2,500	2,621
Recycled	6,966	6,729	6,643	6,872	6,966	7,138
Construction and Other	2,752	2,675	2,610	2,644	2,733	2,917
Total All Grades	**38,476**	**38,640**	**39,739**	**41,737**	**43,149**	**45,641**
Paper and Products	20,072	20,441	20,953	21,794	22,438	23,689
Paperboard and Products	15,534	15,401	16,083	17,178	17,810	18,871
Total including Products	**38,358**	**38,517**	**39,646**	**41,616**	**42,981**	**45,477**
Real G.N.P.- $ Bil., 1982 Prices Revised Series	**1629.1**	**1,665.3**	**1,708.7**	**1,799.4**	**1,873.3**	**1,973.3**
Ratio of New Supply to Real GNP - Revised						
Total Paper	12.350	12.304	12.248	12.105	11.998	12.035
Newsprint	4.369	4.401	4.269	4.146	4.003	4.080
Printing/Writing Papers	4.213	4.250	4.289	4.319	4.352	4.386
Uncoated Groundwood	0.573	0.576	0.546	0.524	0.528	0.534
Coated	1.207	1.259	1.251	1.259	1.280	1.303
Uncoated Free Sheet	1.873	1.847	1.896	1.907	1.927	1.938
Thin and Cotton Fiber	0.150	0.151	0.152	0.161	0.153	0.153
Bleached Bristols	0.410	0.417	0.444	0.468	0.464	0.459
Packaging and Ind. Conv. Papers	2.469	2.338	2.339	2.302	2.273	2.187
Unbleached Kraft	1.716	1.639	1.619	1.606	1.614	1.540
Other	0.753	0.698	0.720	0.697	0.659	0.648
Tissue	1.299	1.316	1.349	1.337	1.370	1.381
Total Paperboard	9.578	9.293	9.481	9.621	9.577	9.616
Unbleached Kraft	3.009	2.984	3.170	3.273	3.338	3.468
Semichemical	1.076	1.057	1.144	1.197	1.186	1.203
Bleached Board	1.217	1.211	1.279	1.332	1.335	1.328
Recycled	4.276	4.041	3.888	3.819	3.719	3.617
Construction and Other	1.689	1.606	1.527	1.469	1.459	1.478
Total All Grades	**23.618**	**23.203**	**23.257**	**23.195**	**23.034**	**23.129**
Paper and Products	12.321	12.275	12.263	12.112	11.978	12.005
Paperboard and Products	9.535	9.248	9.412	9.547	9.507	9.563
Total Including Products	**23.546**	**23.129**	**23.202**	**23.128**	**22.944**	**23.046**

* - About 5% of this total is bleached bristols that may also be included in total paper.

NOTE: The new supply data in this table are based upon the shipments data shown in Table I and in part, on the import-export data as reported by the Bureau of the Census and published in the current and earlier issues of the Statistics of Paper and Paperboard. Imports of newsprint, uncoated groundwood paper, coated paper and uncoated free sheet paper have been adjusted to reflect Canadian data on shipments of the grades to the United States. New supply of paper and products and paperboard and products was calculated using the Census import and export totals for all grades. See Tables XXXV and XXXVI for the adjusted import and export data used. E - Estimate

TABLE X (Cont.)

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

1959-1985

000 Short Tons	1965	1966	1967	1968	1969	1970	1971
Production - Total	**43,455**	**46,702**	**46,568**	**50,134**	**52,912**	**51,670**	**53,162**
Total Paper	19,157	20,725	20,926	22,168	23,435	23,336	23,704
Total Paperboard	21,332	23,179	22,819	24,904	26,376	25,383	26,037
Unbleached Kraft	8,301E	9,303E	9,485E	10,762	11,816	11,541	11,800
Semichemical	2,681E	2,969E	3,057E	3,475	3,697	3,518	3,70
Bleached Kraft	2,818E*	3,053E*	3,060E*	3,324	3,541	3,343	3,381
Recycled	7,532E	7,853E	7,217E	7,343	7,322	6,981	7,156
Wet Machine Board	144	148	144	155	148	139	138
Building Paper	1,574	1,495	1,503	1,574	1,603	1,594	1,837
Insulating Board	1,248	1,155	1,176	1,333	1,352	1,219	1,446
New Supply							
Total Paper	25,197	27,323	27,231	28,263	29,959	29,633	30,064
Newsprint	8,510	9,268	9,165	9,307	9,959	9,797	9,773
Printing/Writing Papers	9,348	10,362	10,208	10,518	11,236	11,033	11,311
Uncoated Groundwood	1,069	1,217	1,163	1,219	1,306	1,310	1,323
Coated	2,767	3,039	3,041	3,045	3,240	3,167	3,124
Uncoated Free Sheet	4,198	4,676	4,584	4,799	5,195	5,132	5,449
Thin and Cotton Fiber	314	351	345	351	371	353	338
Bleached Bristols	1,000	1,079	1,077	1,104	1,124	1,071	1,077
Packaging and Ind. Conv. Papers	4,473	4,610	4,645	5,003	5,173	5,105	5,163
Unbleached Kraft	3,150	3,269	3,233	3,494	3,602	3,582	3,598
Other	1,323	1,341	1,412	1,509	1,571	1,523	1,565
Tissue	2,866	3,083	3,212	3,435	3,591	3,698	3,817
Total Paperboard	20,301	22,063	21,498	23,325	24,526	23,495	23,938
Unbleached Kraft	7,401	8,332	8,317	9,388	10,135	9,858	9,976
Semichemical	2,626	2,905	2,981	3,381	3,645	3,434	3,596
Bleached Board	2,771	2,994	2,999	3,216	3,432	3,229	3,224
Recycled	7,503	7,832	7,201	7,340	7,314	6,974	7,142
Construction and Other	2,972	2,791	2,827	3,073	3,105	2,972	3,467
Total All Grades	**48,470**	**52,175**	**51,554**	**54,661**	**57,590**	**56,100**	**57,469**
Paper and Products	25,130	27,386	27,238	28,303	30,002	29,764	30,371
Paperboard and Products	20,168	21,940	21,369	22,975	24,314	23,232	23,613
Total including Products	**48,270**	**52,117**	**51,434**	**54,351**	**57,421**	**55,968**	**57,451**
Real G.N.P.- $ Bil., 1982 Prices Revised Series	**2087.6**	**2208.3**	**2271.3**	**2365.6**	**2423.3**	**2416.7**	**2,484.8**
Ratio of New Supply to Real GNP - Revised							
Total Paper	12.070	12.373	11.989	11.947	12.363	12.264	12.099
Newsprint	4.076	4.197	4.035	1.398	4.110	4.055	3.933
Printing/Writing Papers	4.478	4.692	4.494	4.446	4.637	4.566	4.552
Uncoated Groundwood	0.512	0.551	0.512	0.515	0.539	0.542	0.532
Coated	1.325	1.376	1.339	1.287	1.337	1.311	1.257
Uncoated Free Sheet	2.011	2.117	2.018	2.029	2.144	2.124	2.193
Thin and Cotton Fiber	0.150	0.159	0.152	0.148	0.153	0.146	0.136
Bleached Bristols	0.479	0.489	0.474	0.467	0.464	0.443	0.433
Packaging and Ind. Conv. Papers	2.143	2.088	2.045	2.115	2.135	2.113	2.078
Unbleached Kraft	1.509	1.480	1.423	1.477	1.486	1.482	1.448
Other	0.634	0.607	0.622	0.638	0.648	0.630	0.630
Tissue	1.373	1.396	1.414	1.452	1.482	1.531	1.536
Total Paperboard	9.725	9.991	9.465	9.860	10.121	9.724	9.634
Unbleached Kraft	3.545	3.773	3.662	3.969	4.182	4.080	4.015
Semichemical	1.258	1.315	1.312	1.429	1.504	1.421	1.447
Bleached Board	1.327	1.356	1.320	1.359	1.416	1.336	1.297
Recycled	3.594	3.547	3.170	3.103	3.018	2.886	2.874
Construction and Other	1.424	1.264	1.245	1.299	1.281	1.230	1.395
Total All Grades	**23.218**	**23.627**	**22.698**	**23.107**	**23.765**	**23.218**	**23.128**
Paper and Products	12.038	12.401	11.992	11.964	12.381	12.319	12.223
Paperboard and Products	9.661	9.935	9.408	9.712	10.033	9.615	9.503
Total Including Products	**23.122**	**23.600**	**22.645**	**22.976**	**23.695**	**23.164**	**23.121**

* - About 5% of this total is bleached bristols that may also be included in total paper

E - Estimate

TABLE X (Cont.)

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

1959-1985

000 Short Tons	1972	1973	1974	1975	1976	1977	1978
Production - Total	**57,434**	**59,900**	**59,040**	**50,976**	**58,329**	**60,040**	**62,047**
Total Paper	25,340	26,775	26,841	23,241	26,554	27,703	28,296
Total Paperboard	28,502	29,571	28,915	24,756	28,440	28,953	30,275
Unbleached Kraft	13,268	13,563	13,333	11,543	13,332	13,651	14,372
Semichemical	4,010	4,260	4,175	3,702	4,105	4,264	4,439
Bleached Kraft	3,686	3,864	3,773	3,343	3,844	3,721	3,979
Recycled	7,156	7,885	7,634	6,168	7,158	7,317	7,485
Wet Machine Board	148	149	144	115	130	129	136
Building Paper	1,915	1,858	1,845	1,615	1,771	1,852	1,915
Insulating Board	1,529	1,547	1,295	1,249	1,434	1,403	1,425
New Supply							
Total Paper	32,014	34,005	34,154	28,242	32,490	34,126	35,966
Newsprint	10,269	10,877	10,955	9,048	9,917	10,080	10,788
Printing/Writing Papers	12,329	13,512	13,590	10,948	13,296	14,242	15,263
Uncoated Groundwood	1,334	1,388	1,460	1,316	1,588	1,794	1,907
Coated	3,411	3,711	3,693	3,037	3,842	4,223	4,540
Uncoated Free Sheet	6,034	6,769	6,834	5,330	6,479	6,835	7,274
Thin and Cotton Fiber	390	410	401	334	363	384	435
Bleached Bristols	1,160	1,234	1,201	931	1,024	1,052	1,108
Packaging and Ind. Conv. Papers	5,459	5,600	5,547	4,299	5,111	5,535	5,709
Unbleached Kraft	3,791	3,916	3,951RS	3,070	3,598	3,720	3,884
Other	1,565	1,684	1,596RS	1,229	1,513	1,815*	1,826*
Tissue	3,817	4,016	4,062	3,948	4,166	4,269	4,206
Total Paperboard	26,279	27,590	26,799	23,311	26,744	27,150	28,335
Unbleached Kraft	11,381	11,972	11,760	10,485	12,089	12,376	12,938
Semichemical	3,898	4,153	4,029	3,587	3,986	4,142	4,368
Bleached Board	3,468	3,584	3,453	3,087	3,538	3,332	3,546
Recycled	7,142	7,881	7,557	6,152	7,131	7,300	7,483
Construction and Other	3,650	3,604	3,301	3,001	3,367	3,464	3,737
Total All Grades	**61,943**	**65,199**	**64,254**	**54,554**	**62,601**	**64,740**	**68,039**
Paper and Products	32,246	34,037	33,719	28,298	32,485	34,081	36,153
Paperboard and Products	26,142	27,362	26,288	22,811	26,161	26,696	27,897
Total Including Products	**62,038**	**65,003**	**63,308**	**54,110**	**62,013**	**64,241**	**67,787**
Real G.N.P.- $ Bil.,1982 Prices Revised Series	**2,608.5**	**2,744.1**	**2,729.3**	**2,695.0**	**2,826.7**	**2,958.6**	**3,115.2**
Ratio of New Supply to Real G.N.P							
Total Paper	12.273	12.392	12.514	10.479	11.494	11.535	11.545
Newsprint	3.937	3.964	4.014	3.357	3.508	3.407	3.463
Printing/Writing Papers	4.726	4.924	4.979	4.062	4.704	4.138	4.900
Uncoated Groundwood	0.511	0.506	0.535	0.488	0.562	0.606	0.612
Coated	1.308	1.352	1.353	1.127	1.359	1.427	1.457
Uncoated Free Sheet	2.313	3.560	2.504	1.978	2.292	2.310	2.335
Thin and Cotton Fiber	0.150	0.149	0.147	0.124	0.128	0.130	0.140
Bleached Bristols	0.445	0.450	0.440	0.345	0.362	0.356	0.356
Packaging and Ind. Conv. Papers	2.093	2.041	2.032	1.595	1.808	1.871	1.833
Unbleached Kraft	1.453	1.427	1.448	1.139	1.273	1.257	1.247
Other	0.639	0.614	0.585	0.456	0.535	0.613	0.586
Tissue	1.517	1.464	1.488	1.465	1.474	1.443	1.350
Total Paperboard	10.074	10.054	9.819	8.650	9.461	9.177	9.096
Unbleached Kraft	4.363	4.363	4.309	3.891	4.277	4.183	4.153
Semichemical	1.494	1.513	1.476	1.331	1.410	1.400	1.402
Bleached Board	1.329	1.306	1.265	1.145	1.252	1.126	1.138
Recycled	2.887	2.872	2.769	2.283	2.523	2.467	2.402
Construction and Other	1.399	1.313	1.209	1.114	1.191	1.171	1.200
Total All Grades	**23.747**	**23.978**	**23.542**	**20.243**	**22.146**	**21.882**	**21.841**
Paper and Products	12.362	12.404	12.354	10.500	11.492	11.519	11.605
Paperboard and Products	10.022	9.971	9.632	8.464	9.255	9.023	8.955
Total Including Products	**23.783**	**23.688**	**23.196**	**20.078**	**21.938**	**21.713**	**21.760**

NOTE: The new supply data in this table are based upon the shipments data shown in Table I and the import-export data as reported by the Bureau of the Census and published in the current and earlier issues of the Statistics of Paper and Paperboard. Imports of newsprint, uncoated groundwood paper, coated paper and uncoated free sheet paper have been adjusted to reflect Canadian data on shipments of these grades to the United States. New supply of paper and products and of paperboard and products was calculated using Census import and export totals for all grades. See Tables XXXV and XXXVI for the adjusted import and export data used. RS - Revised Series

* Data overstated by about 10%, as indicated by revision of 1979 data in 1980 report.

TABLE X (Cont.)

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

1959-1985

000 Short Tons	1979	1980	1981	1982R	1983R	1984R	1985P
Production - Total	**64,345**	**63,536**	**64,263**	**60,988**	**66,815**	**70,250**	**68,855**
Total Paper	29,641	30,026	30,881	30,261	32,838	34,411	34,021
Total Paperboard	31,429	30,952	31,232	29,065	32,177	34,039	33,034
Unbleached Kraft	15,151	15,295	15,602	14,535	16,122	17,185	16,367
Semichemical	4,689	4,724	4,719	4,389	4,730	5,169	5,088
Bleached Kraft	3,998	3,862	3,910	3,665	3,926	4,048	3,948
Recycled	7,591	7,071	7,001	6,476	7,398	7,636	7,630
Wet Machine Board	144	138	160	129	140E	140E	140E
Building Paper	1,868	1,369	1,144	798	760E	700E	700E
Insulating Board	1,263	1,051	846	735	900E	960E	960E
New Supply							
Total Paper	37,423	37,035	37,527	36,629	40,254	43,521	43,509
Newsprint	11,159	11,377	11,696	10,948	11,597	12,721	12,843
Printing/Writing Papers	16,100	16,145	16,166	16,261	18,526	20,449	20,556
Uncoated Groundwood	2,123	2,086	2,001	2,068	2,414	2,833	2,866
Coated	4,587	4,643	4,843	4,979	5,799	6,592	6,288
Uncoated Free Sheet	7,937	8,063	7,921	7,948	8,943	9,601	10,065
Thin and Cotton Fiber	468	415	439	394	423	442	392
Bleached Bristols	985	937	962	873	947	982	945
Packaging and Ind. Conv. Papers	5,655	5,195	5,195	4,992	5,344	5,416	5,131
Unbleached Kraft	3,935	3,707	3,654	3,497	3,591	3,602	3,399
Other	1,720	1,488	1,541	1,495	1,752	1,815	1,732
Tissue	4,509	4,318	4,470	4,428	4,787	4,934	4,979
Total Paperboard	29,250	27,716	28,741	26,526	29,333	31,551	30,707
Unbleached Kraft	13,532	12,959	13,764	12,639	13,890	15,169	14,589
Semichemical	4,624	4,432	4,616	4,252	4,608	5,124	4,964
Bleached Board	3,502	3,313	3,353	3,140	3,411	3,570	3,483
Recycled	7,592	7,012	7,007	6,495	7,424	7,687	7,672
Construction and Other	3,598	2,968	2,468	2,024	2,210E	2,222E	2,148E
Total All Grades	**70,271**	**67,718**	**68,735**	**65,179**	**71,797**	**77,294**	**76,365**
Paper and Products	37,358	36,938	37,313	36,578	40,067	43,612	43,901
Paperboard and Products	28,840	27,198	28,180	26,164	28,956	31,105	30,251
Total Including Products	**69,796**	**67,103**	**67,961**	**64,766**	**71,233**	**76,939**	**76,300**
Real G.N.P.- $ Bil., 1982 Prices Revised Series	**3.192.3**	**3,187.2**	**3,248.7**	**3,166.0**	**3,279.1**	**3,489.9**	**3,585.2**
Ratio of New Supply to Real G.N.P.							
Total Paper	11.723	11.620	11.551	11.569	12.276	12.471	12.136
Newsprint	3.496	3.570	3.599	3.458	3.537	3.645	3.582
Printing/Writing Papers	5.043	5.066	4.976	5.136	5.650	5.859	5.734
Uncoated Groundwood	0.665	0.654	0.616	0.653	0.736	0.812	0.799
Coated	1.437	1.457	1.491	1.573	1.768	1.889	1.754
Uncoated Free Sheet	2.486	2.530	2.438	2.510	2.727	2.751	2.807
Thin and Cotton Fiber	0.147	0.130	0.135	0.124	0.129	0.127	0.109
Bleached Bristols	0.309	0.294	0.296	0.276	0.289	0.281	0.264
Packaging and Ind. Conv. Papers	1.771	1.630	1.599	1.577	1.630	1.552	1.431
Unbleached Kraft	1.233	1.163	1.125	1.105	1.095	1.032	0.948
Other	0.539	0.467	0.474	0.472	0.534	0.520	0.483
Tissue	1.412	1.355	1.377	1.399	1.460	1.414	1.389
Total Paperboard	9.163	8.696	8.847	8.378	8.945	9.041	8.565
Unbleached Kraft	4.239	4.066	4.237	3.992	4.236	4.347	4.069
Semichemical	1.448	1.391	1.421	1.343	1.405	1.468	1.385
Bleached Board	1.097	1.039	1.032	0.992	1.040	1.023	0.971
Recycled	2.378	2.200	2.157	2.051	2.264	2.203	2.140
Construction and Other	1.127	0.931	0.760	0.639	0.674E	0.637E	0.599E
Total All Grades	**22.013**	**21.247**	**21.158**	**20.587**	**21.895**	**22.146**	**21.300**
Paper and Products	11.703	11.589	11.486	11.553	12.219	12.497	12.245
Paperboard and Products	9.034	8.533	8.674	8.264	8.830	8.913	8.438
Total Including Products	**21.864**	**21.054**	**20.919**	**20.457**	**21.723**	**22.046**	**21.282**

* Data overstated by about 10%, as indicated by revision of 1979 data in 1980 report

R - Revised P - Preliminary E - Estimated by API

TABLE XI

UNITED STATES CAPACITY TO PRODUCE PAPER AND BOARD

1973 - 1988

(THOUSANDS OF TONS)

	1973	1974	1975	1976	1977	1978	1979	1980
TOTAL PAPER AND BOARD	**62,284**	**63,779**	**64,369**	**65,673**	**66,459**	**67,419**	**69,033**	**70,716**
Total Paper	**27,621**	**28,532**	**28,922**	**29,210**	**29,831**	**30,460**	**31,179**	**32,659**
Newsprint #	3,597	3,722*	3,848	4,014	4,069	4,104	4,199	4,836
Total Printing, Writing & Related	13,659	14,128	14,275	14,494	14,975	15,566	16,057	16,798
Groundwood Uncoated #	1,403	1,280	1,329	1,309	1,367	1,453	1,541	1,624
Coated Papers - Total	4,045	4,075	4,065	4,202	4,397	4,546	4,822	4,984
Coated Groundwood	--	--	2,127	2,299	2,408	2,450	2,554	2,762
Coated Free Sheet	--	--	1,938	1,903	1,989	2,096	2,268	2,222
Uncoated Free Sheet	6,541	7,046	7,180	7,319	7,465	7,847	8,152	8,645
Cotton Fiber	149	142	139	142	133	131	134	139
Thin	342	351	367	358	402	395	393	382
Solid Bleached Bristols	1,179	1,235	1,194	1,165	1,213	1,194	1,016	1,024
Total Packaging & Ind. Conv.	6,060	6,360	6,368	6,202	6,242	6,146	6,053	6,072
Unbleached Kraft	4,138	4,389	4,333	4,218	4,317	4,223	4,098	4,110
Bleached Pkg. & Ind. Conv.	1,292	1,291	1,194**	1,128	1,069	1,041	1,105	1,095
Specialty Pkg.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	597
Other	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	498
Special Industrial	629	679	841	856	856	883	850	866
Tissue	4,303	4,322	4,432	4,500	4,545	4,644	4,870	4,954
Total Paperboard	**30,543**	**30,995**	**31,218**	**32,097**	**32,173**	**32,631**	**33,436**	**33,709**
Total Unbleached Kraft Packaging & Industrial Converting	13,898	13,965	14,157	14,568	14,793	15,054	15,546	15,967
Linerboard	12,862	12,901	13,138	13,448	13,586	13,864	14,199	14,586
Folding Boxboard	463	479	484	595	645	650	827	852
Other	573	585	536	525	561	540	520	529
Total Bleached Packaging Paperboard	3,928	3,920	3,807	3,998	4,020	4,197	4,268	4,180
Folding Boxboard	1,749	1,851	1,751	1,915	1,930	1,996	2,061	1,954
Milk Carton & Food Service	1,899	1,848	1,859	1,854	1,824	1,899	1,877	1,865
Linerboard	139	108	95	101	97	122	137	116
Other	141	113	102	128	170	179	193	246
Semichemical Paperboard	4,386	4,430	4,536	4,758	4,661	4,739	4,864	4,946
Total Recycled Paperboard	8,330	8,680	8,717	8,774	8,699	8,642	8,757	8,617
Linerboard	306	430	364	361	392	361	432	509
Corrugating Medium	1,178	1,358	1,449	1,476	1,337	1,343	1,392	1,330
Container Chip & Filler	349	344	408	398	403	311	287	283
Folding	2,664	2,665	2,658	2,705	2,674	2,568	2,615	2,593
Set-Up	518	505	465	450	443	418	404	349
Gypsum Wall Board Facing	1,093	1,100	1,063	1,046	1,112	1,238	1,273	1,238
Other	2,221	2,278	2,310	2,337	2,337	2,403	2,355	2,313
Total Paper and Paperboard	**58,164**	**59,527**	**60,140**	**61,307**	**62,004**	**63,091**	**64,615**	**66,368**
Total Wet Machine Board	**182**	**188**	**217**	**216**	**180**	**145**	**154**	**163**
Total Construction Paper & Board	**3,939**	**4,063**	**4,011**	**4,149**	**4,276**	**4,182**	**4,265**	**4,184**
Construction Paper	2,102	2,165	2,270	2,317	2,364	2,352	2,380	2,345
Insulating Board	1,837	1,898	1,741	1,832	1,912	1,830	1,885	1,839
Total Hard Pressed Board ###	**2,247**	**2,334**	**2,460**	**2,511**	**2,536##**	**2,525##**	**2,556##**	**2,556##**

SOURCE: American Paper Institute, Paper, Paperboard and Wood Pulp Capacity Survey, various issues to October 1985.
N.A. - Not Available
* - Average basis weight changed from 32 lbs. to 30 lbs. during 1974.
** - Reflects shift of about 215,000 tons of bleached kraft envelope paper to uncoated free sheet in 1975 and later years.
# - Not directly comparable with shipments data in Table II in 1972-1977 because of redefinition of certain grades from uncoated groundwood paper to newsprint.
- As reported in 1976 Capacity Survey.
- Hard Pressed Board not included in Total Paper and Board.

TABLE XI (Cont.)

UNITED STATES CAPACITY TO PRODUCE PAPER AND BOARD

1973 - 1988

(THOUSANDS OF TONS)

	1981	1982	1983	1984	1985F	1986F	1987F	1988F
TOTAL PAPER AND BOARD	**72,255**	**73,118**	**74,017**	**75,943**	**76,696**	**78,158**	**80,063**	**81,125**
Total Paper	**33,706**	**34,665**	**35,675**	**37,106**	**37,577**	**38,200**	**39,327**	**40,069**
Newsprint	5,457	5,654	5,774	5,851	5,820	5,825	5,850	5,873
Total Printing, Writing & Related	17,302	17,809	18,633	19,890	20,470	21,189	22,343	22,935
Groundwood Uncoated	1,625	1,655	1,710	1,704	1,644	1,625	1,633	1,634
Coated Papers-Total	5,292	5,516	5,995	6,557	6,722	6,984	7,501	7,834
Coated Groundwood	3,047	3,242	3,522	3,766	3,907	4,116	4,385	4,534
Coated Free Sheet	2,245	2,274	2,473	2,791	2,815	2,868	3,116	3,300
Uncoated Free Sheet	8,828	9,039	9,354	10,058	10,562	11,030	11,631	11,868
Cotton Fiber	147	161	162	181	188	187	192	193
Thin	374	369	347	338	330	330	330	330
Solid Bleached Bristols	1,035	1,069	1,065	1,051	1,023	1,032	1,056	1,075
Total Packaging & Ind. Conv.	5,913	6,076	6,078	6,088	5,950	5,741	5,592	5,643
Unbleached Kraft	3,961	4,091	4,065	3,972	3,862	3,619	3,423	3,439
Bleached Pkg. & Ind. Conv.	1,083	1,080	1,119	1,148	1,093	1,110	1,122	1,123
Specialty Pkg.	554	553	569	599	552	576	580	581
Other	529	527	550	549	541	534	542	542
Special Industrial	870	906	894	968	996	1,011	1,047	1,080
Tissue	5,035	5,125	5,190	5,276	5,338	5,446	5,543	5,619
Total Paperboard	**34,466**	**35,421**	**35,451**	**35,992**	**36,726**	**37,603**	**38,381**	**38,699**
Total Unbleached Kraft Packaging & Industrial Converting	16,738	17,402	17,511	17,834	18,068	18,370	18,739	18,954
Linerboard	15,372	16,032	16,217	16,565	16,780	17,090	17,446	17,596
Folding Boxboard	799	860	800	792	828	829	835	899
Other	567	509	493	477	459	452	459	459
Total Bleached Packaging Paperboard	4,141	4,123	4,129	4,185	4,375	4,664	4,761	4,792
Folding Boxboard	1,966	1,988	1,992	2,095	2,323	2,590	2,660	2,675
Milk Carton & Food Service	1,839	1,812	1,812	1,771	1,727	1,743	1,769	1,784
Linerboard	106	104	111	119	133	133	133	133
Other	230	219	215	200	192	197	199	199
Semichemical Paperboard	4,988	5,207	5,119	5,252	5,415	5,493	5,612	5,636
Total Recycled Paperboard	8,599	8,690	8,692	8,722	8,869	9,077	9,268	9,317
Linerboard	463	379	395	393	420	575	603	605
Corrugating Medium	1,349	1,478	1,427	1,524	1,555	1,570	1,698	1,718
Container Chip & Filler	309	273	247	228	213	215	215	215
Folding	2,633	2,676	2,671	2,626	2,644	2,658	2,677	2,687
Set-Up	335	331	324	296	305	305	306	307
Gypsum Wall Board Facing	1,251	1,255	1,217	1,249	1,303	1,310	1,312	1,314
Other	2,260	2,298	2,412	2,405	2,430	2,443	2,458	2,471
Total Paper and Paperboard	**68,172**	**70,086**	**71,126**	**73,098**	**74,303**	**75,803**	**77,708**	**78,768**
Total Wet Machine Board	**157**	**160**	**173**	**170**	**165**	**165**	**165**	**167**
Total Construction Paper & Board	**3,926**	**2,872**	**2,718**	**2,676**	**2,227**	**2,189**	**2,190**	**2,191**
Construction Paper	2,111	1,306	1,234	1,227	991	973	974	975
Insulating Board	1,815	1,566	1,484	1,449	1,236	1,216	1,216	1,216

SOURCE: American Paper Institute, Paper, Paperboard and Wood Pulp Capacity Survey various issues to October 1985.
F - Forecast as reported in October 1985 Capacity Survey
N.A. - Not Available

TABLE XII

WOOD PULP CAPACITY

1973 - 1988

(Thousands of Tons)

	1973	1974	1975	1976	1977	1978	1979	1980
TOTAL ALL GRADES (1)	**48,459**	**48,995**	**48,502**	**50,547**	**51,849**	**51,714**	**53,636**	**55,214**
Dissolving and Special Alpha	1,754	1,824	1,671	1,571	1,648	1,573	1,551	1,590
Chemical Paper Grades	36,631	36,912	37,411	38,292	39,174	39,997	40,897	41,893
Sulfite, Paper Grades Total	2,378	2,401	2,420	2,417	2,252	2,095	2,004	1,909
Bleached	1,977	2,014	1,993	1,972	1,812	1,675	1,595	1,512
Unbleached	401	387	427	445	440	420	409	397
Sulfate and Soda Total	34,253	34,511	34,991	35,875	36,922	37,903	38,893	39,983
Bleached and Semi-Bleached	13,733	14,522	14,764	15,042	15,822	18,171	18,969	19,695
Hardwood	6,608	7,105	7,201	7,208	7,310	7,729	8,072	8,356
Softwood	7,125	7,417	7,563	7,835	8,512	10,442	10,897	11,339
Semi-Bleached Total	2,045	1,539	1,469	1,539	1,547	(2)	(2)	
Hardwood	328	33	7	19	12			
Softwood	1,717	1,506	1,462	1,520	1,536			
Unbleached	18,475	18,451	18,758	19,293	19,552	19,732	19,923	20,288
Semichemical Total	4,171	4,233	4,246	4,402	4,514	4,572	4,553	4,601
Bleached	344	330	334	345	345	339	336	384
Unbleached	3,827	3,903	3,912	4,057	4,169	4,234	4,217	4,217
Mechanical Total (Groundwood)	5,802	5,930	6,090	6,204	6,442	6,507	6,572	7,069
For Paper and Board	4,532	4,572	4,247	4,416	4,502	4,580	4,573	5,070
Stone Groundwood	-	-	3,615	3,540	3,397	3,328	3,255	3,212
Refiner	-	-	500	543	538	533	507	486
Thermo-Mechanical	-	-	131	333	567	719	811	1,371
For Other Paper and Board	1,270E	1,358E	1,843	1,788	1,939	1,926	1,999	1,999
Stone and Refiner	-	-	523	537	525	529	594	647
Defibrated and Exploded	1,270E	1,358E	1,320E	1,251E	1,414	1,397	1,406	1,352
Screenings	100	97	84	78	71	65	63	61
MARKET PULP								
Total All Grades	-	**5,557**	**5,412**	**5,407**	**5,467**	**5,746**	**6,334**	**6,801**
Dissolving	-	1,636	1,488	1,421	1,611	1,573	1,551	1,576
Chemical Paper Grades	-	3,921	3,924	3.986	3,856	4,069	4,632	5,129
Sulfate	-	3,431	3,430	3,411	3,444	3,760	4,332	4,761
Bl. and Semi-Bleached	-	3,240	3,218	3,194	3,280	3,653	4,228	4,589
Unbleached	-	191	212	218	164	107	104	172
Sulfite	-	471	460	459	301	309	350	369
All Other	-	19	34	116	111	104	101	96

- No Data Available

(1) Excludes defribrated and exploded wood pulp for hard pressed board as follows:

	1973	1974	1975	1976	1977	1978	1979	1980
	2,215	2,300	2,425	2,500	2,500	N.A.	N.A.	N.A.

(2) Semi-Bleached Total included with Bleached.

E - Estimate
N.A.- Not available

TABLE XII (Cont.)

WOOD PULP CAPACITY

1972 - 1988

(Thousands of Tons)

	1981	1982	1983F	1984	1985F	1986F	1987F	1988F
TOTAL ALL GRADES (1)	**56,831**	**57,638**	**57,590**	**59,001**	**59,587**	**60,570**	**61,323**	**61,699**
Dissolving and Special Alpha	1,598	1,606	1,525	1,487	1,443	1,438	1,437	1,432
Chemical Paper Grades	43,143	43,971	44,284	45,479	46,447	47,164	47,708	48,112
Sulfite, Paper Grades Total	1,855	1,780	1,788	1,750	1,736	1,747	1,748	1,756
Bleached	1,464	1,383	1,404	1,445	1,481	1,492	1,493	1,501
Unbleached	391	397	385	305	255	255	255	255
Sulfate and Soda Total	41,288	42,191	42,495	43,729	44,710	45,416	45,960	46,356
Bleached and Semi-Bleached - Total	20,316	20,757	21,290	22,357	23,544	24,299	24,886	25,215
Hardwood	8,559	8,705	9,179	9,867	10,588	11,063	11,414	11,598
Softwood	11,757	12,052	12,111	12,490	12,956	13,236	13,472	13,617
Unbleached	20,972	21,435	21,206	21,372	21,166	21,117	21,074	21,141
Semichemical Total	4,597	4,734	4,490	4,625	4,718	4,753	4,780	4,792
Bleached	350	356	367	381	395	395	395	395
Unbleached	4,247	4,378	4,122	4,244	4,323	4,358	4,385	4,397
Mechanical Total (Groundwood)	7,434	7,293	7,261	7,380	6,953	7,186	7,371	7,336
For Paper and Board	5,494	5,780	5,814	6,122	5,968	6,223	6,405	6,370
Stone Groundwood	3,239	3,260	3,146	3,168	3,004	3,047	3,010	2,954
Refiner	489	472	480	501	508	513	513	513
Thermo-Mechanical	1,766	2,048	2,188	2,453	2,457	2,662	2,882	2,904
For Other Paper and Board	1,940	1,513	1,447	1,259	985	966	966	966
Stone and Refiner	651	628	576	469	268	249	249	249
Defibrated and Exploded	1,289	885	871	789	717	717	717	717
Screenings	58	34	31	29	26	26	26	26
MARKET PULP								
Total All Grades	**6,972**	**7,079**	**7,414**	**7,530**	**7,957**	**8,047**	**7,830**	**7,824**
Dissolving	1,579	1,598	1,519	1,487	1,443	1,438	1,437	1,432
Chemical Paper Grades	5,375	5,469	5,881	6,029	6,499	6,593	6,376	6,376
Sulfate	5,034	5,182	5,529	5,727	6,202	6,296	6,079	6,079
Bl. and Semi-Bleached	4,867	5,040	5,372	5,582	6,057	6,118	5,899	5,899
Unbleached	167	142	157	145	145	177	180	180
Sulfite	341	288	352	302	297	297	297	297
All Other	17	12	14	14	15	16	16	16

F - Forecast

TABLE XIII

IMPORTS

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

1980 - 1985

	1980		1981		1982	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	12,918,160	5,200,885	12,504,912	5,559,228	11,754,127	5,344,649
WOOD PULP, ALL GRADES, TOTAL	4,050,919	1,683,655	4,086,698	1,764,287	3,655,786	1,493,241
Dissolving and Special Alpha	262,747	110,202	248,565	105,179	186,477	77,853
Sulphite, Paper Grades, Total	426,745	177,953	442,422	197,695	329,442	145,373
Bleached	317,468	138,825	352,262	162,189	280,068	125,800
Unbleached	109,277	39,127	90,160	35,506	49,374	19,573
Sulphate, Paper Grades, Total	3,188,092	1,351,402	3,212,878	1,413,170	2,972,567	1,228,889
Bleached	2,904,205	1,239,720	2,904,531	1,285,810	2,761,314	1,147,304
Semi-Bleached	140,342	58,245	142,727	62,094	78,608	33,156
Unbleached	143,545	53,437	165,620	65,266	132,645	48,429
Soda	**	**	**	**	**	**
Groundwood	148,499	33,849	158,606	37,422	144,336	32,861
Other*	24,836	10,249	24,227	10,821	22,964	8,265
WASTE PAPER	87,064	17,188	79,064	13,405	74,332	9,450
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	8,780,177	3,417,904	8,339,150	3,672,492	8,024,009	3,682,401
PAPER, PAPERBOARD AND OTHER, TOTAL	8,686,416	3,172,997	8,244,942	3,361,887	7,917,418	3,344,205
PAPER, TOTAL#	8,113,036	3,063,633	7,716,284	3,247,846	7,381,252	3,226,307
Newsprint	7,279,349	2,637,857	6,977,118	2,824,777	6,530,676	2,748,652
Printing & Writing Paper, Total	739,678	363,266	638,538	347,117	764,095	408,551
Groundwood, Uncoated	487,973	204,873	458,915	219,697	514,882	248,196
Coated and Impregnated Paper	114,927	68,868	39,321	28,765	69,010	46,763
Uncoated Free Sheet	129,380	80,604	127,377	80,352	168,519	99,330
Uncoated Book	115,528	62,466	114,422	64,874	142,626	80,105
Writing Papers	13,852	18,138	12,955	15,478	25,893	19,225
Other Fine Paper	-	-	-	-	-	-
Thin Paper	6,321	8,182	12,015	17,647	11,293	13,846
Bristols	1,077	739	910	656	391	416
Packaging & Industrial Paper, Total	89,893	60,043	93,588	71,124	79,653	63,863
Unbleached Kraft	33,889	14,293	32,532	14,870	23,078	10,749
Other Packaging & Converting	50,443	36,307	52,724	41,615	47,842	38,290
Glassine & Greaseproof	3,679	5,654	4,797	7,929	5,949	8,909
Vegetable Parchment	62	248	44	232	172	424
Special Industrial Paper	1,819	3,542	3,491	6,478	2,612	5,491
Tissue Paper	4,116	2,467	7,040	4,830	6,828	5,241
PAPERBOARD, TOTAL	97,583	25,576	130,478	34,518	114,808	29,698
Test or Containerboard	43,472	11,340	48,169	12,071	35,983	8,459
Semichemical Corrugating	31,349	6,156	52,476	11,695	47,295	9,679
Other Paperboard	22,762	8,080	29,832	10,751	31,531	11,560
WET MACHINE BOARD	2,118	1,395	1,684	1,185	1,842	1,239
CONSTRUCTION PAPER & BOARD, TOTAL	473,679	82,393	396,496	78,338	419,515	86,961
Building Paper	435,666	73,238	355,284	65,927	371,186	70,964
Insulating and Other Building Board	38,013	9,155	41,212	12,411	48,330	15,997
PAPER AND PAPERBOARD PRODUCTS, TOTAL#	93,761	244,907	94,208	310,605	106,591	338,196
PAPER PRODUCTS, TOTAL#	84,146	232,412	86,676	294,479	92,059	307,245
Printing & Book Paper#	19,377	80,902	21,635	96,180	30,656	124,667
Writing & Related Paper	55,780	136,334	53,885	177,048	50,275	161,616
Special Industrial Paper	5,792	10,368	8,109	16,152	7,540	15,239
Tissue Paper	3,197	4,808	3,047	5,098	3,588	5,723
PAPERBOARD PRODUCTS, TOTAL	9,615	12,494	7,531	16,126	14,532	30,951
Hard Pressed Board (Not in totals)	172,023	32,713	189,466	42,095	152,505	30,908

* Includes Mixtures and Screenings
** Included with Sulphate Pulp Imports
# Coated and Impregnated Printing Papers included in Primary Coated Papers from 1977 on, in earlier years they were in Paper Products

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the subtotals, but are in the Total All grades: ($ 000)

$82,138 $109,042 $159,558

TABLE XIII (Cont.)

IMPORTS

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

1980 - 1985

	1983		1984		1985	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	**13,180,285**	**5,650,120**	**15,675,105**	**7,180,256**	**16,074,779**	**7,457,087**
WOOD PULP, ALL GRADES, TOTAL	**4,093,436**	**1,472,478**	**4,490,081**	**1,844,768**	**4,465,746**	**1,520,907**
Dissolving and Special Alpha	192,317	72,280	161,066	62,186	175,011	58,956
Sulphite, Paper Grades, Total	305,620	124,299	459,810	190,689	424,510	159,609
Bleached	254,546	106,116	395,547	165,435	313,592	125,268
Unbleached	51,074	18,183	64,263	25,254	110,918	34,341
Sulphate, Paper Grades, Total	3,400,659	1,228,776	3,562,732	1,501,513	3,679,000	1,251,781
Bleached	3,197,550	1,163,186	3,383,516	1,433,377	3,496,344	1,193,242
Semi-Bleached	66,996	25,124	46,277	20,601	57,248	19,542
Unbleached	136,113	40,466	132,939	47,535	125,408	38,997
Soda	**	**	**	**	**	**
Groundwood	184,342	43,545	257,543	70,360	111,501	28,662
Other *	10,498	3,577	48,930	20,018	75,724	21,899
WASTE PAPER	**100,410**	**10,537**	**109,712**	**11,692**	**87,413**	**10,160**
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	**8,986,439**	**4,018,855**	**11,075,312**	**5,323,796**	**11,521,619**	**5,697,802**
PAPER, PAPERBOARD AND OTHER,TOTAL	**8,834,568**	**3,582,292**	**10,855,990**	**4,782,630**	**11,238,094**	**5,074,482**
PAPER, TOTAL#	**8,189,498**	**3,428,868**	**10,113,718**	**4,592,641**	**10,637,428**	**4,906,882**
Newsprint	**6,919,348**	**2,757,524**	**7,893,877**	**3,299,570**	**8,496,568**	**3,638,716**
Printing and Writing Paper, Total	**1,151,011**	**587,426**	**2,044,045**	**1,170,144**	**1,912,867**	**1,116,225**
Groundwood, Uncoated	732,237	331,017	1,090,049	548,791	1,027,211	530,619
Coated and Impregnated Paper	162,441	101,289	428,274	295,844	496,072	363,855
Uncoated Free Sheet	235,605	135,350	478,628	285,212	364,848	198,432
Book, Uncoated	154,147	88,632	254,926	156,296	200,927	106,586
Writing Papers	81,458	46,718	223,702	128,916	163,921	91,846
Other Fine Paper	-	-	-	-	-	-
Thin Paper	20,258	19,213	46,427	39,513	23,712	22,276
Bristols	471	557	667	784	1,024	1,043
Packaging & Industrial Paper, Total	**107,521**	**75,694**	**145,484**	**102,565**	**172,003**	**116,390**
Unbleached Kraft	42,013	17,454	42,854	19,568	63,604	23,976
Other Packaging & Converting	51,982	37,372	83,860	53,927	85,052	56,429
Glassine & Greaseproof	8,159	11,857	11,659	16,506	15,027	20,881
Vegetable Parchment	330	602	696	1,000	1,165	1,700
Special Industrial Paper	5,038	8,408	6,415	11,564	7,154	13,405
Tissue Paper	**11,617**	**8,225**	**30,312**	**20,362**	**55,990**	**35,551**
PAPERBOARD, TOTAL	**167,818**	**46,160**	**242,616**	**73,892**	**184,201**	**55,875**
Test or Containerboard	48,119	13,042	70,028	22,218	50,975	16,848
Semichemical Corrugating	69,564	14,509	103,968	26,098	65,203	13,706
Other Paperbcard	50,136	18,609	68,620	25,576	68,023	25,321
WET MACHINE BOARD	**3,584**	**2,422**	**2,826**	**2,017**	**3,270**	**2,585**
CONSTRUCTION PAPER & BOARD, TOTAL	**473,667**	**104,842**	**496,830**	**114,080**	**413,196**	**109,140**
Building Paper	393,148	77,004	388,790	77,075	180,797	52,266
Insulating and Other Building Board	80,519	27,837	108,040	37,005	232,407	56,874
PAPER AND PAPERBOARD PRODUCTS, TOTAL#	**151,872**	**436,563**	**219,322**	**541,166**	**283,526**	**623,320**
PAPER PRODUCTS, TOTAL#	**124,816**	**373,966**	**184,522**	**472,998**	**258,934**	**572,316**
Printing & Book Paper#	27,260	119,636	36,947	152,006	37,226	148,241
Writing & Related Paper	82,184	228,078	118,865	275,709	154,727	340,143
Packaging & Special Industrial Paper	9,032	18,428	12,964	28,709	16,773	36,407
Tissue Paper	6,340	7,824	15,746	16,574	50,208	47,534
PAPERBOARD PRODUCTS, TOTAL	**27,055**	**62,597**	**34,800**	**68,168**	**24,592**	**51,004**
Hard Pressed Board (Not in totals)	**238,479**	**46,416**	**269,173**	**53,087**	**266,030**	**51,991**

* Includes Mixtures and Screenings

** Included with Sulphate Pulp Imports

# Coated and Impregnated Printing Papers included in Primary Coated Papers, in earlier years they were in Paper Products.

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the sub-totals, but are in the Total, All Grades: ($ 000)

1983	1984	1985
$148,251	$195,737	$228,219

TABLE XIV

EXPORTS

1980 - 1985

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

	1980		1981		1982	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	11,832,242	4,849,934	10,663,148	4,917,049	9,872,299	4,324,128
WOOD PULP ALL GRADES, TOTAL	**3,805,549**	**1,652,099**	**3,677,635**	**1,661,311**	**3,394,648**	**1,414,558**
Dissolving and Special Alpha	768,975	393,384	783,848	419,324	631,324	327,617
Sulphite, Paper Grades, Total	348,097	154,199	284,316	122,236	216,783	93,051
Bleached	322,212	146,084	271,952	118,465	209,078	91,115
Unbleached	25,885	8,115	12,364	3,771	7,705	1,936
Sulphate, Paper Grades, Total	2,607,736	1,078,233	2,585,476	1,111,599	2,519,413	985,496
Bleached	2,402,619	1,010,204	2,417,882	1,051,557	2,357,896	934,401
Semi-Bleached	92,121	27,994	66,443	24,956	62,399	21,470
Unbleached	112,996	40,035	101,151	35,086	99,118	29,625
Mechanical, Semi-Chemical & Other	80,741	26,283	23,995	8,151	27,128	8,394
COTTON PULP & OTHER FIBER	**148,485**	**92,607**	**131,910**	**85,195**	**104,560**	**72,327**
WASTE PAPER	**2,664,272**	**322,195**	**2,212,549**	**268,526**	**2,127,050**	**238,934**
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	**5,213,936**	**2,772,733**	**4,641,054**	**2,890,782**	**4,246,041**	**2,589,319**
PAPER, PAPERBOARD AND OTHER, TOTAL	**4,581,878**	**2,052,406**	**4,033,988**	**2,079,937**	**3,670,413**	**1,754,352**
PAPER, TOTAL	**907,447**	**737,363**	**1,008,409**	**846,775**	**840,445**	**679,069**
Newsprint	**174,869**	**86,403**	**270,460**	**139,702**	**307,657**	**142,964**
Printing & Writing Paper, Total	**340,859**	**306,100**	**383,317**	**354,608**	**246,617**	**239,134**
Uncoated Groundwood	100,951	71,716	119,673	91,966	55,916	48,430
Coated Printing and Converting	92,351	75,160	88,597	78,328	81,373	65,485
Coated Groundwood	44,503	35,783	46,398	38,263	34,665	25,964
Coated Book	47,848	39,377	42,199	40,065	46,708	39,521
Uncoated Free Sheet	88,313	94,826	116,752	119,592	70,599	75,451
Thin (ex. cigarette)	33,835	42,036	42,717	46,573	27,688	34,699
Cotton Fiber	16,608	16,387	9,221	13,118	6,637	10,917
Bristols	8,801	5,975	6,357	5,031	4,404	4,152
Packaging & Industrial Paper, Total	**330,780**	**291,341**	**302,887**	**304,622**	**262,861**	**271,556**
Unbl.Kraft Pkg & Ind.Conv.,Total	142,825	61,346	110,801	50,980	89,062	38,003
Unbleached Kraft exc. Ship. Sack	77,154	36,172	69,328	34,107	49,377	22,534
Shipping Sack	65,671	25,174	41,473	16,873	39,685	15,469
Glassine, Greaseproof & Veg. Parch.	8,490	9,751	8,818	10,475	5,447	7,246
Other Pkg. & Industrial Converting	37,211	27,920	46,922	34,523	55,886	36,247
Special Industrial, Total	142,254	192,324	136,346	208,644	112,466	190,060
Special Industrial	129,566	165,754	124,128	179,793	102,491	166,669
Absorbent	12,688	26,570	12,218	28,851	9,975	23,391
Tissue Paper	**60,939**	**53,521**	**51,745**	**47,842**	**23,310**	**25,415**
PAPERBOARD TOTAL	**3,608,752**	**1,283,130**	**2,945,935**	**1,195,528**	**2,771,046**	**1,044,908**
Kraft Linerboard (a)	2,527,245	790,070	1,973,487	660,285	1,886,193	542,304
Other Kraft Paperboard (Unbleached)	163,825	60,633	148,855	63,341	139,219	60,780
Corrugating Medium Semichemical	62,884	17,264	65,821	19,588	61,422	18,116
Bleached Packaging Paperboard, Total	606,044	314,751	584,250	367,530	525,734	349,614
Milk Carton	394,970	199,511	364,503	227,083	366,522	235,812
Folding Boxboard	112,504	62,676	109,313	70,515	81,339	56,735
Plate, Dish, Tray & Cup	53,963	26,958	54,576	34,083	42,115	29,647
Other	44,607	25,606	55,858	35,849	35,757	27,421
Recycled Furnish Paperboard, Total	248,754	100,412	173,522	84,784	158,478	74,094
Boxboard & Related Boards	101,186	42,470	69,939	32,313	76,728	31,877
Special Paperboard	63,210	35,413	53,760	36,219	32,418	26,295
Containerboard	84,358	22,528	49,823	16,252	49,332	15,922
WET MACHINE BOARD	**8,017**	**5,258**	**10,812**	**7,039**	**11,089**	**5,939**
CONSTRUCTION PAPER & BOARD, TOTAL	**57,662**	**26,655**	**68,832**	**30,595**	**47,833**	**24,437**
Building Paper	31,436	13,299	22,690	12,364	19,748	10,544
Insulating & Other Building Board	26,226	13,356	46,142	18,231	28,085	13,893
PAPER AND PAPERBOARD PRODUCTS, TOTAL	**632,058**	**720,328**	**607,066**	**810,845**	**575,628**	**834,966**
PAPER PRODUCTS, TOTAL	**378,581**	**523,511**	**362,337**	**580,602**	**315,805**	**591,163**
Cig. Paper Cut to Size, Books, etc.	25,141	49,308	20,120	47,335	17,717	46,349
PAPERBOARD PRODUCTS, TOTAL	**253,477**	**196,817**	**244,729**	**230,243**	**259,823**	**243,804**
Hard Pressed Board (Not in Totals)	**28,900**	**10,705**	**61,046**	**19,111**	**46,793**	**13,921**

NOTE: Grade structure revised in 1978.

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the sub-totals, but are in the Total, All Grades: ($ 000)

	1980	1981	1982
	$10,300	$11,235	$8,990

TABLE XIV (Cont.)

EXPORTS

1980 - 1985

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

	1983		1984		1985	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	10,889,442	4,229,844	11,301,136	4,534,007	11,259,715	4,047,813
WOOD PULP ALL GRADES, TOTAL	**3,643,963**	**1,362,022**	**3,593,585**	**1,501,947**	**3,795,102**	**1,353,758**
Dissolving and Special Alpha	646,509	325,606	594,963	304,295	630,862	299,186
Sulphite, Paper Grades, Total	294,189	109,993	273,805	111,055	272,288	93,216
Bleached	281,422	106,258	263,416	107,797	250,047	87,873
Unbleached	12,767	3,736	10,389	3,258	22,241	5,343
Sulphate, Paper Grades, Total	2,663,639	913,537	2,670,794	1,064,663	2,862,933	951,684
Bleached	2,510,158	872,076	2,504,038	1,010,851	2,727,183	914,977
Semi-Bleached	57,630	18,230	75,937	25,697	40,543	13,150
Unbleached	95,851	23,231	90,819	28,116	95,207	23,557
Mechanical, Semi-Chemical & Other	39,626	12,884	54,023	21,934	29,019	9,672
COTTON PULP & OTHER FIBER	**102,863**	**69,805**	**84,883**	**63,545**	**107,224**	**71,802**
WASTE PAPER	**2,573,716**	**308,915**	**3,235,441**	**408,128**	**3,285,926**	**349,258**
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	**4,568,900**	**2,481,137**	**4,387,227**	**2,551,544**	**4,071,463**	**2,266,377**
PAPER, PAPERBOARD AND OTHER, TOTAL	**3,984,537**	**1,718,035**	**3,819,212**	**1,789,505**	**3,580,553**	**1,586,234**
PAPER, TOTAL	**773,760**	**599,557**	**810,933**	**632,493**	**779,000**	**594,338**
Newsprint	**294,870**	**127,119**	**306,198**	**133,964**	**314,385,**	**131,379**
Printing & Writing Paper, Total	**201,820**	**198,304**	**203,525**	**219,925**	**202,826**	**201,845**
Uncoated Groundwood	37,292	33,300	30,405	28,875	36,779	31,727
Coated Printing & Converting	79,185	60,033	85,715	71,368	82,461	64,624
Coated Groundwood	33,987	25,172	44,376	36,133	36,444	31,922
Coated Book	45,198	34,861	41,339	35,235	46,017	32,701
Uncoated Free Sheet	59,133	71,662	65,410	87,255	64,573	79,015
Thin (ex. cigarette)	17,643	20,010	14,036	20,705	13,338	17,603
Cotton Fiber	4,837	9,779	4,983	8,247	4,286	7,493
Bristols	3,730	3,520	2,976	3,475	1,389	1,383
Packaging & Industrial Paper, Total	**261,487**	**255,273**	**284,201**	**259,323**	**243,671**	**242,909**
Unbl.Kraft Pkg. & Ind. Conv., Total	116,190	43,233	106,712	44,382	67,695	29,931
Unbl. Kraft exc. Shipping Sack	47,133	18,037	40,434	19,155	29,062	15,595
Shipping Sack	69,057	25,196	66,278	25,227	38,663	14,336
Glassine, Greaseproof & Veg. Parch.	17,202	7,682	5,444	8,845	6,189	9,597
Other Pkg. & Industrial Converting	16,272	22,056	26,148	22,693	31,917	22,347
Special Industrial, Total	111,523	182,302	145,897	183,403	137,870	181,034
Special Industrial	101,743	160,454	8,973	21,360	129,565	162,808
Absorbent	9,781	21,848	136,924	162,043	8,305	18,226
Tissue Paper	**15,883**	**18,861**	**17,009**	**19,281**	**18,118**	**18,205**
PAPERBOARD TOTAL	**3,143,405**	**1,086,488**	**2,930,607**	**1,113,040**	**2,732,744**	**952,190**
Kraft Linerboard (a)	2,254,544	575,862	2,058,034	630,691	1,807,151	480,909
Other Kraft Paperboard (Unbleached)	107,142	51,822	110,878	51,270	100,651	41,053
Corrugating Medium Semichemical	73,758	17,144	49,612	12,220	61,853	15,293
Bleached Packaging Paperboard, Total	558,326	371,436	543,217	346,432	517,525	333,102
Milk Carton	392,485	266,165	348,816	227,899	378,814	244,935
Folding Boxboard	87,896	57,361	106,450	68,074	110,721	67,578
Plate, Dish, Tray & Cup	35,970	23,608	42,180	25,718	9,896	7,104
Other	41,974	24,303	45,775	24,748	18,088	13,506
Recycled Furnish Paperboard, Total	149,635	70,224	168,866	72,427	245,564	81,833
Boxboard & Related Boards (c)	57,818	27,908	5,387	3,334	56,213	30,232
Special Paperboard	42,323	29,408	123,368	59,001	124,136	35,015
Containerboard	49,494	12,908	40,111	10,092	65,215	16,586
WET MACHINE BOARD	**11,624**	**5,420**	**13,782**	**7,335**	**13,380**	**6,930**
CONSTRUCTION PAPER & BOARD, TOTAL	**55,748**	**26,570**	**63,890**	**36,637**	**55,429**	**32,776**
Building Paper	20,676	11,633	26,498	17,765	21,671	13,344
Insulating & Other Building Board	35,070	14,937	37,392	18,872	33,758	19,433
PAPER AND PAPERBOARD PRODUCTS, TOTAL	**584,363**	**763,102**	**568,015**	**762,039**	**490,910**	**680,143**
PAPER PRODUCTS, TOTAL	**311,912**	**535,687**	**286,461**	**516,155**	**237,191**	**464,174**
Cig. Paper Cut to Size, Books, etc.	16,280	44,419	1,892	42,808	14,939	39,710
PAPERBOARD PRODUCTS, TOTAL	**272,451**	**227,415**	**281,554**	**245,884**	**253,719**	**215,970**
Hard Pressed Board (Not in Totals)	**60,405**	**17,949**	**63,865**	**19,576**	**192,090**	**24,523**

(a) Contains Bleached Kraft Linerboard reported as follows:(Tons) 1980 - 233,924; 1981 - 151,979; 1982 - 67,595; 1983 - 160,253; 1984 - 141,368; 1985 - 130,358; (b) Contains some Bristols and Other Paperboard. (c) Excludes Recycled Corrugating Medium. (d) Includes Bleached Folding Boxboard Not Reported Separately. * Not comparable to prior years

NOTE: Dollar figures for the value of shipment for which no tonnage figures were given are shown below. They are not included in the sub-totals, but are in the Total, All Grades: ($ 000)

	1983		1984		1985	
		$8,990		$7,965		$6,518

TABLE XV

VALUE OF SHIPMENTS OF PRODUCT CLASSES

1979 - 1984

(Millions of Dollars)

SIC CODE		1979	1980	1981	1982R	1983	1984
26	**PAPER AND ALLIED PRODUCTS (1)**	**$62,662.7**	**$70,014.7**	**$77,294.4**	**$77,067.2**	**$81,802.9**	**$92,543.9**
2611-	**Pulp**	**3,077.2**	**3,911.9**	**3,971.0**	**3,644.2**	**3,624.3**	**4,183.9**
26111	Special Alpha and Dissolving Woodpulp	621.9	818.3	715.1	593.8	589.9	617.6
26112	Other Pulp, Including Byproducts, Exc. Tall Oil	2,450.6	3,087.4	3,249.8	3,046.8#	3,025.3	3,562.6
26110	Pulp, N.S.K	4.7	6.2	6.0	3.6	9.1	3.8
2621-	**Papermill Products, except Building Paper**	**15,784.3**	**17,710.7**	**19,936.3**	**20,056.9**	**21,361.0**	**24,354.3**
26211	Newsprint	1,226.1	1,683.9	2,063.0	2,161.6	2,220.1	2,369.8
26212	Groundwood Paper, Uncoated	722.7	741.4	842.3	841.5	888.6	1,043.8
26213	Clay Coated Printing and Converting Paper	2,824.9	3,160.3	3,581.4	3,787.3	4,232.4	5,362.7
26214	Uncoated Free Sheet	4,665.8	5,442.9	5,765.7	5,530.6	5,969.4	6,899.1
26215	Bleached Bristols (Exc. Cotton Fiber)	502.1	494.0	602.8	605.2	697.4	708.7
26216	Cotton Fiber Paper and Thin Paper (77)	645.3	676.6	736.2	599.3	619.1	762.4
26217	Unbleached Kraft Packaging & Ind. Converting Paper	1,243.9	1,438.6	1,444.4	1,199.8	1,219.0	1,349.1
26218	Packaging and Ind. Conv. Paper, Exc. Unbl. Kraft	759.8	719.5	793.3	666.7	687.7	858.7
26219	Special Industrial Paper	575.3	544.1	639.5	942.8	1,010.9	1,058.2
26210	Tissue Paper, and Papermill Products, N.S.K	2,618.3	2,809.3	3,467.6	3,722.1#	3,816.4	3,882.3
2631-	**Paperboard Mill Products**	**8,026.9**	**9,062.8**	**10,064.9**	**9,390.0**	**9,932.8**	**11,686.2**
26311	Unbleached Kraft Packaging & Ind. Conv. Paperboard	3,542.1	4,069.7	4,575.9	4,076.1	4,101.0	5,218.1
26312	Bleached Packaging & Ind. Converting Paperboard	1,566.5	1,780.9	2,031.3	2,146.0	2,215.3	2,366.6
26313	Semichemical Paperboard	967.1	1,069.1	1,158.7	1,012.5	987.2	1,355.3
26314	Recycled Paperboard	1,863.3	2,053.7	2,173.0	2,062.1	2,537.0	2,607.0
26318	Wet Machine Board	70.4	64.2	76.8	62.8	64.8	81.6
26310	Paperboard Mill Products, N.S.K	17.4	25.3	49.3	30.4	27.4	57.6
264-	**Miscellaneous Converted Paper Products**	**19,771.2**	**22,127.1**	**24,273.3**	**25,043.7**	**26,562.3**	**29,924.0**
2641-	**Coated and Glazed Paper**	**3,832.1**	**4,302.4**	**4,803.4**	**4,903.1**	**5,314.1**	**6,451.9**
26411	Printing Paper Coated at Estab. not making Paper	233.6	233.4	269.3	241.6	322.0	319.7
26412	Oiled, Waxed and Wax-Laminated Paper	255.5	350.4	368.7	(A)	(A)	A
26413	Gummed Products	229.6	259.7	237.7	211.9	228.9	290.1
26414	Pressure Sensitive Tape and Labels (Unprinted)	1,502.7	1,649.5	1,857.3	1,867.6	2,110.6	2,616.3
26417	Laminated, Coated Rolls, Sheets, for Pkg. Uses	927.2	1,060.5	1,238.9	1,329.2#	1,358.1	1,705.5
26418	Other Coated Processed Paper, Except Pkg. & Waxed	574.6	632.1	689.7	900.3#	1,023.3	1,135.7
26410	Coated and Glazed, N.S.K	108.8	116.8	141.4	352.6#	271.2	384.6
26420	**Envelopes(Excluding Stationary Envelopes)**	**1,288.8**	**1,460.7**	**1,610.3**	**1,751.6**	**1,874.9**	**2,107.6**
2643-	**Bags, Except Textile Bags**	**4,200.4**	**4,621.0**	**5,037.6**	**4,772.8**	**5,081.3**	**5,387.6**
26431	Grocers' & Variety Bags and Shopping Bags	985.2	1,129.3	1,209.5	1,163.8#	1,181.9	1,183.4
26432	Specialty Bags and Liners	2,390.9	2,689.8	2,972.7	2,391.6#	2,795.9	2,836.9
26433	Shipping Sacks and Multiwall Bags	781.6	760.2	805.8	846.5#	878.1	963.1
26430	Bags, Except Textile Bags, N.S.K	(S)	(S)	(S)	370.9#	225.3	404.1
2645-	**Die-Cut Paper and Board**	**1,213.9**	**1,394.5**	**1,514.8**	**1,605.1**	**1,797.6**	**1,880.0**
26451	Office Supplies and Misc. Products	671.5	745.3	826.5	797.3#	923.9	916.3
26452	Pasted, Lined, Laminated, or Coated Paperboard	465.6	(529.9)	576.0	684.8#	745.3	828.3
26450	Die-Cut Paper and Board, N.S.K	(76.8)	119.3	112.3	123.0#	128.3	135.4
2646-	**Pressed and Molded Pulp Goods**	**216.7**	**209.2**	**246.2**	**242.3**	**217.4**	**236.3**
26461	Bituminous Fiber Pipe,	(D)	(D)	(D)	(D)	(D)	(D)
26462	Other Pressed and Molded Pulp Goods	207.8	(200.5)	239.9	(D)	(D)	(D)
26460	Pressed and Molded Pulp Goods, N.S.K	(D)	(D)	(D)	(D)	(D)	(D)
2647-	**Sanitary Paper Products**	**6,163.9**	**7,043.4**	**7,752.3**	**8,373.5**	**8,615.8**	**9,771.5**
26471	Sanitary Napkins and Tampons	660.4	775.8	919.2	915.1	944.3	1,162.5
26473	Disposable Diapers	**	**	**	2,158.5#	2,175.0	2,593.9
26474	Sanitary Tissue Health Products	5,420.3	6,283.8	6,793.0	5,268.8#	5,457.4	5,920.7
26470	Sanitary Paper Products, N.S.K	83.2	-	40.1	40.1#	39.1	94.4
2648-	**Stationery Products**	**751.5**	**840.8**	**896.6**	**959.2**	**1,057.6**	**1,160.9**
26481	Stationery	190.0	235.4	268.4	261.8	309.5	304.9
26482	Tablets and Related Products	497.7	535.6	569.4	603.1	653.9	736.0
26480	Stationery Products, N.S.K	63.8	69.8	58.9	94.4#	94.3	120.0
2649-	**Converted Paper Products N.E.C**	**2,103.9**	**2,255.1**	**2,412.1**	**2,436.1**	**2,603.6**	**2,928.2**
26492	Wrapping Products (Gift Wrap, etc.)	344.1	360.0	394.8	396.9#	459.6	497.6
26493	Wallcoverings	325.5	361.1	410.2	389.6	401.0	491.9
26495	Other Converted Paper and Board Products	1,199.4	1,233.8	1,270.4	1,304.4#	1,397.4	1,452.4
26490	Converted Paper Products, N.E.C, N.S.K	234.9	(300.1)	336.7	345.2#	345.7	486.3
265-	**Paperboard Containers and Boxes**	**15,439.5**	**16,684.4**	**18,548.5**	**18,578.1**	**19,906.5**	**21,966.9**
26510	**Bending Paperboard Packaging and Pkg. Components**	**2,797.7**	**3,152.9**	**3,415.0**	**3,743.9**	**3,979.5**	**4,326.5**
26520	**Setup Paperboard Boxes**	**408.1**	**447.1**	**485.0**	**485.1**	**552.3**	**492.6**
26530	**Corrugated and Solid Fiber Boxes, Inc. Pallets**	**8,686.9**	**9,363.5**	**10,495.9**	**10,303.1**	**11,045.1**	**12,718.7**
2654-	**Sanitary Food Containers**	**2,251.7**	**2,392.5**	**2,627.2**	**2,555.7**	**2,686.4**	**2,749.7**
26541	Milk and Other Beverage Cartons (Paperboard)	489.5	502.7	512.6	550.5	535.2	577.5
26542	Cups and Liquid-Tight Containers (Paperboard)	724.9	779.3	828.1	885.2	961.4	964.6
26543	Other Sanitary Food Containers, Boards, and Trays	1,034.8	1,108.0	1,299.1	1,076.9#	1,147.4	1,137.1
26540	Sanitary Food Containers, (Paperboard) N.S.K	(S)	(S)	*	43.1#	42.4	70.6
2655-	**Fiber Cans, Drums, and Similar Products**	**1,295.1**	**1,328.4**	**1,525.4**	**1,490.3**	**1,643.2**	**1,679.4**
26551	Paperboard Fiber Drums	299.8	282.6	286.5	289.8	317.2	312.7
26552	Fiber Cans, Tubes, and Similar Fiber Products	956.3	1,004.5	1,188.1	1,152.3	1,283.5	1,286.0
26550	Fiber Cans, Drums and Similar Products, N.S.K	38.9	41.3	50.8	48.2#	42.5	80.7
2661-	**Building Paper and Board**	**563.6**	**517.8**	**500.4**	**354.3**	**416.0**	**428.6**
26611	Insulating Board	231.7	211.3	208.7	188.9	225.0	245.9
26612	Construction Paper	313.2	281.6	253.5	165.3	189.2	174.7
26610	Building Paper and Board, N.S.K	18.7	24.9	38.2	(Z)	1.7	(S)

SOURCE: Survey of Manufactures - Bureau of Census

R -Revised
N.S.K. - Not Specified by Kind
N.E.C. - Not Elsewhere Classified
(Z) Less than half the unit shown

(1) Sum of reported data
(A) Not reported separately
(D) Data withheld to avoid disclosure
(S) Not up to statistical standard

* - Withheld - NSK calculation was a negative number
** - Included in Sanitary Tissue Health Products
# - Data for 1982 and later years based on revised SIC Codes published in the 1982 Census of Manufactures

SECTION II

REGIONAL DATA

Table XVI presents data on pulpwood consumption, wood pulp production and paper and paperboard shipments, by major grade groupings for 1985 on a state, divisional and regional basis as reported by the Department of Commerce. The totals are not in full agreement with those shown on Tables I - IX, but the geographic distribution appears to be representative.

The Department of Commerce reported some of the state and regional totals, but for most of the states the data were withheld to avoid disclosure.

Table XVII shows data on capacity for paper, paperboard and for wood pulp by major grades for each of the nine Census Divisions for the years 1970 and 1980-1988, as published in API's October 1985 Capacity Survey. The table below presents the 1984 and 1988 percentage distribution of these data for paper and paperboard, by major grade groups, and for total wood pulp. This table highlights the concentration of wood pulp and paperboard capacity in the South; the importance of paper capacity in the North East and North Central Regions; and the growth in capacity of wood pulp, paper and paperboard projected for the Southern states during the next three years.

	Total Paper and Paperboard		Total Paper		Total Paperboard		Total	Other	Total Wood Pulp	
	1984	1988	1984	1988	1984	1988	1984	1988	1984	1988
	Percentage Distribution									
UNITED STATES	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
NORTH EAST	**15.8**	**15.3**	**24.5**	**23.9**	**6.3**	**5.9**	**23.3**	**22.6**	**8.3**	**7.9**
NEW ENGLAND	8.0	8.0	14.0	13.9	2.3	2.2	2.2	2.5	5.8	5.7
MIDDLE ATLANTIC	7.8	7.3	10.5	9.9	4.0	3.7	21.1	20.1	2.5	2.2
NORTH CENTRAL	**18.5**	**18.0**	**22.3**	**22.0**	**14.0**	**13.8**	**25.0**	**20.2**	**7.5**	**7.8**
EAST NORTH CENTRAL	15.9	15.9	19.5	19.3	12.7	12.5	10.8	13.2	6.0	6.6
WEST NORTH CENTRAL	2.5	2.1	2.8	2.7	1.3	1.3	14.2	7.0	1.5	1.1
SOUTH	**51.4**	**52.5**	**39.2**	**40.3**	**64.4**	**65.3**	**45.7**	**52.5**	**67.3**	**67.7**
SOUTH ATLANTIC	23.9	24.2	15.8	16.1	32.6	32.8	18.3	22.1	31.5	31.6
EAST SOUTH CENTRAL	13.4	13.3	11.4	10.9	15.4	15.6	14.1	17.1	18.0	18.6
WEST SOUTH CENTRAL	14.1	15.0	12.1	13.3	16.3	16.9	13.2	13.4	17.8	17.5
WEST	**14.4**	**14.2**	**14.0**	**13.9**	**15.3**	**15.1**	**6.0**	**4.7**	**17.0**	**16.6**

Table XVIII presents paper industry data published in the 1983 Survey of Manufactures on a state by state basis. The Survey publishes statistics on employment, payrolls, value-added, value of shipments, inventories and capital expenditures for each state. The data shown are at the level of the total paper and allied products industry, and thus include activity in both the primary and converting sectors.

TABLE XVI

STATE DATA - 1983R

(Short Tons)

			PAPER AND PAPERBOARD SHIPMENTS				
Geographic Areas	PULPWOOD CONSUMPTION (Cords)*	WOOD PULP PRODUCTION	Total All Grades	Paper	Paperboard	Wet Machine Board	Construction Paper Plus Insulating Board
UNITED STATES, TOTAL	**83,493,489**	**54,055,152**	**66,942,484**	**31,856,903**	**31,870,561**	**97,987**	**1,175,258**
Northeast	**7,240,895**	**4,667,942**	**10,168,044**	**7,803,489**	**1,860,877**	**54,761R**	**(D)**
New England	**4,594,094**	**2,886,625**	**(D)**	**4,463,800**	**722,633**	**(D)**	-
Maine	(D)	2,518,762	(D)	3,469,924	(D)	-	-
New Hampshire	(D)	(D)	(D)	341,213	(D)	(D)	-
Vermont	(D)	(D)	(D)	406,825	315,119	-	-
Massachusetts	(D)	-	(D)	(D)	(D)	-	-
Rhode Island	(D)	-	-	-	(D)	-	-
Connecticut	(D)	-	(D)	(D)	-	(D)	-
Middle Atlantic	**2,646,801**	**1,781,317**	**(D)**	**3,339,689**	**1,088,244**	**(D)**	**(D)**
New York	586,652S	(D)	(D)	1,495,963	211,172	(D)	(D)
New Jersey	(D)	(D)	(D)	349,068	258,777	(D)	(D)
Pennsylvania	(D)	1,083,639	(D)	1,494,658	618,295	(D)	(D)
North Central	**5,708,042**	**4,184,871**	**11,779,994**	**7,155,595**	**4,028,047**	**(D)**	**(D)**
East North Central	**4,258,481**	**3,249,563**	**(D)**	**6,215,371**	**(D)**	**(D)**	**(D)**
Ohio	(D)	(D)	(D)	(D)	1,049,178	-	(D)
Indiana	(D)H	(D)	(D)	(D)	538,632	-	-
Illinois	-	-	(D)	(D)	383,064	(D)	(D)
Michigan	(D)	1,008,287	(D)	1,391,862	(D)	-	-
Wisconsin	2,481,991	1,698,990	(D)	3,608,337	(D)	(D)	(D)
West North Central	**1,179,561**	**935,308**	**(D)**	**940,224**	**(D)**	-	**(D)**
Minnesota	1,125,466	844,407	(D)	940,224	(D)	-	(D)
Iowa	(D)H	(D)	-	-	(D)	-	-
Missouri	(D)H	(D)	(D)	-	(D)	-	(D)
Kansas	-		(D)	-	(D)	-	-
South	**55,436,578**	**36,475,497**	**35,206,915**	**12,469,107**	**21,101,699**	**(D)**	**(D)**
South Atlantic	**25,286,398**	**17,451,536**	**15,965,618**	**4,647,775**	**10,671,789**	**(D)**	**(D)**
Delaware	-	-	(D)	(D)	-	-	-
Maryland	(D)	(D)	(D)	(D)	(D)	-	-
Virginia	3,668,370	2,642,920	(D)	(D)	1,840,897	(D)	-
West Virginia	-	-	(D)	(D)	(D)	-	-
North Carolina	3,915,041	2,943,317	2,234,389	(D)	(D)	-	-
South Carolina	(D)	(D)	2,109,045	(D)	(D)	-	-
Georgia	7,499,032	6,032,605	5,460,571	1,080,200	(D)	-	(D)
Florida	5,374,845	3,426,141	(D)	(D)	(D)	-	-
East South Central	**14,761,006**	**10,186,153**	**9,689,241**	**4,031,522**	**4,922,351**	**(D)**	**(D)**
Kentucky	(D)	(D)	(D)	(D)	(D)	-	-
Tennessee	489,991H	(D)	2,199,449	(D)	(D)	(D)	(D)
Alabama	8,759,284	5,675,464	(D)	2,387,416	(D)	-	-
Mississippi	1,810,656S	2,393,531	1,927,065	(D)	(D)	-	-
West South Central	**15,389,174**	**8,837,808**	**9,552,056**	**3,789,810**	**5,507,559**	-	123,2201/
Arkansas	3,756,637	(D)	2,358,642	(D)	(D)	-	(D)
Louisiana	6,049,075	3,313,810	(D)	1,400,498	(D)	-	(D)
Oklahoma	(D)	(D)	(D)	(D)	(D)	-	(D)
Texas	(D)	2,965,232	2,255,786	(D)	1,073,500	-	-
West	**15,107,973**	**8,726,842**	**9,787,531**	**4,428,712**	**4,879,938**	-	**(D)**
Mountain	**2,039,874S**	**1,704,353**	**(D)**	**(D)**	**(D)**	-	-
Montana	-	(D)	-	-	(D)	-	-
Idaho	-	(D)	-	-	(D)	-	-
Colorado	-	-	-	-	(D)	-	-
New Mexico	-	-	-	-	-	-	-
Arizona	-	(D)	-	-	(D)	-	-
Utah	-	-	-	-	-	-	-
Pacific	**13,068,099**	**7,522,489**	**(D)**	**(D)**	**(D)**	-	**(D)**
Washington	6,261,554	3,622,207	(D)	(D)	(D)	-	-
Oregon	4,343,102S	2,844,926	(D)	1,475,190	(D)	-	(D)
California	(D)	(D)	(D)	(D)	1,208,482	-	(D)
Alaska	(D)S	(D)	-	-	-	-	-

SOURCE: Bureau of the Census - Current Industrial Reports, Pulp, Paper and Board 1983, Series M26A (83)-1 U.S. Department of Commerce, Washington, DC

* - 128 Cu. Ft. roughwood basis
- - Represents zero

S - Softwood pulpwood only; hardwood pulpwood data withheld.

H - Hardwood pulpwood only; softwood pulpwood data withheld.

(D) - Withheld by Commerce Department to avoid disclosure

1/ - Construction paper only. Does not include insulating Board.

(R) - Revised

TABLE XVI

STATE DATA - 1984

(Short Tons)

Geographic Areas	PULPWOOD CONSUMPTION (Cords)*	WOOD PULP PRODUCTION	PAPER AND PAPERBOARD SHIPMENTS				
			Total All Grades1/	Paper	Paperboard	Wet Machine Board	Construction Paper Plus Insulating Board
UNITED STATES, TOTAL	**87,065,218**	**57,260,483**	**69,971,183**	**33,392,607**	**33,572,769**	**100,040**	**1,177,638**
Northeast	**7,643,405**	**4,961,843**	**10,575,381**	**8,120,071**	**1,921,612**	**(D)**	**(D)**
New England	**4,785,092**	**3,002,427**	**(D)**	**4,644,727**	**767,276**	**(D)**	-
Maine	(D)	2,659,121	(D)	3,651,971	(D)	-	-
New Hampshire	-	(D)	(D)	327,398	(D)	(D)	-
Massachusetts	-	(D)	(D)	148,446	(D)	-	-
Vermont	-	-	-	414,812	(D)	(D)	-
Rhode Island	-	-	-	-	(D)	-	-
Connecticut	-	-	(D)	102,100	(D)	-	-
Middle Atlantic	**2,858,313**	**1,959,416**	**(D)**	**3,475,344**	**1,154,336**	**(D)**	**(D)**
New York	571,033S	(D)	(D)	1,527,313	204,449	-	(D)
New Jersey	(D)	(D)	(D)	357,124	277,875	-	(D)
Pennsylvania	1,185,510H	1,280,866	(D)	1,590,907	672,012	(D)	(D)
North Central	**6,082,642**	**4,408,040**	**12,462,761**	**7,547,680**	**4,293,113**	**(D)**	**(D)**
East North Central	**4,862,051**	**3,432,463**	**(D)**	**6,532,895**	**(D)**	**(D)**	**(D)**
Ohio	(D)	(D)	(D)	1,061,602	1,149,899	-	(D)
Indiana	(D)	(D)	(D)	28,678	591,581	(D)	-
Illinois	-	-	(D)	166,203	(D)	(D)	(D)
Michigan	1,212,867H	1,097,003	(D)	1,501,736	(D)	-	-
Wisconsin	2,673,031	1,748,384	(D)	3,774,676	(D)	-	(D)
West North Central	**1,220,591**	**975,577**	**(D)**	**1,014,785**	**(D)**	-	**(D)**
Minnesota	1,163,337	884,986	(D)	1,014,785	(D)	-	(D)
Iowa	(D)	(D)	(D)	-	(D)	-	-
Missouri	(D)	(D)	(D)	-	(D)	-	(D)
Kansas	-	-	(D)	-	(D)	-	(D)
South	**57,500,977**	**38,639,814**	**36,547,324**	**12,938,707**	**22,200,423**	**(D)**	**(D)**
South Atlantic	**26,711,690**	**18,968,782**	**16,958,992**	**5,075,942**	**11,260,722**	**(D)**	**(D)**
Delaware	-	-	(D)	(D)	-	-	-
Maryland	(D)	(D)	(D)	(D)	(D)	(D)	-
Virginia	3,071,196	2,814,913	(D)	954,310	1,868,653	(D)	-
West Virginia	-	-	(D)	-	(D)	-	-
North Carolina	1,478,317H	2,992,534	2,347,332	1,037,580	(D)	-	-
South Carolina	2,880,156S	(D)	2,382,349	555,446	(D)	-	-
Georgia	9,382,776	6,506,279	5,800,847	1,289,158	(D)	-	(D)
Florida	5,704,458	3,643,234	(D)	823,299	(D)	-	-
East South Central	**15,162,260**	**10,541,871**	**9,858,247**	**4,053,229**	**5,243,573**	**(D)**	**(D)**
Kentucky	(D)	(D)	(D)	289,496	(D)	-	-
Tennessee	494,577H	(D)	2,299,557	1,056,556	(D)	(D)	(D)
Alabama	9,201,214	6,113,168	(D)	2,348,457	(D)	-	-
Mississippi	1,895,749S	2,268,517	1,844,402	358,720	(D)	-	-
West South Central	**15,627,027**	**9,129,161**	**9,730,085**	**3,809,536**	**5,696,128**	-	**(D)**
Arkansas	1,178,042H	(D)	2,277,931	1,119,691	(D)	-	(D)
Louisiana	6,311,234	3,472,927	(D)	1,465,438	(D)	-	(D)
Oklahoma	(D)	(D)	(D)	-	(D)	-	(D)
Texas	3,840,060S	3,124,886	2,339,397	1,224,407	1,114,990	-	-
West	**15,838,194**	**9,250,786**	**10,385,717**	**4,786,149**	**5,157,621**	-	**(D)**
Mountain	**2,100,136S**	**1,297,909**	**(D)**	**293,349**	**(D)**	-	**(D)**
Montana	-	(D)	(D)	-	-	-	-
Idaho	-	(D)	-	-	-	-	-
Colorado	-	-	-	-	-	-	-
New Mexico	-	-	-	-	-	-	-
Arizona	-	(D)	-	-	-	-	-
Utah	-	-	-	-	-	-	-
Pacific	**13,738,058**	**7,952,877**	**(D)**	**4,492,800**	**(D)**	-	**(D)**
Washington	6,506,182S	4,031,227	(D)	2,458,135	(D)	-	-
Oregon	4,570,921	2,807,831	(D)	1,512,818	(D)	-	(D)
California	(D)	(D)	(D)	521,847	(D)	-	(D)
Alaska	(D)	(D)	-	-	-	-	(D)

SOURCE: Bureau of the Census - Current Industrial Report, Pulp, Paper and Board 1984
Series M26A (84)-1 U.S. Department of Commerce, Washington, D.C.
* - 128 Cu. Ft. roughwood basis
- - Represents zero
S - Softwood pulpwood only; hardwood pulpwood data withheld. H - Hardwood pulpwood only; softwood pulpwood data withheld.
(D) - Withheld by Commerce Department to avoid disclosure. 1/ - Includes hard pressed board not shown separately.
R - Revised

TABLE XVII

CAPACITY OF PAPER, PAPERBOARD AND WOOD PULP BY CENSUS DIVISION

1970, 1980 - 1984, 1988

ANNUAL CAPACITY - 000 SHORT TONS

	Total Paper & Paper-board	PAPER					PAPERBOARD			
								Unbleached Kraft		
		Total	Newsprint	Printing Writing & Related	Packaging & Ind. Converting	Tissue	Total	Total	Liner-board	Solid Bleached
New England										
1970*	4,748	3,660	417	2,419	367	457	895	-	-	34
1980	5,712	4,644	323	3,322	459	541	891	-	-	N.A.
1981	5,740	4,791	N.A.	3,500	441	542	832	-	-	N.A.
1982	5,787	4,901	N.A.	3,600	457	547	811	-	-	N.A.
1983	5,881	4,997	N.A.	3,736	436	533	818	-	-	N.A.
1984	6,103	5,198	N.A.	3,883	466	532	841	-	-	N.A.
1988	6,498	5,579	N.A.	4,127	584	533	861	-	-	N.A.
Middle Atlantic										
1970*	6,354	3,411	149	1,926	300	1,036	2,087	-	-	-
1980	6,452	3,890	N.A.	2,312	224	1,155	1,912	-	-	-
1981	6,316	3,920	N.A.	2,356	225	1,135	1,769	-	-	-
1982	6,037	3,803	N.A.	2,313	222	1,060	1,702	-	-	-
1983	5,929	3,842	N.A.	2,351	236	1,048	1,531	-	-	-
1984	5,909	3,878	N.A.	2,401	236	1,033	1,430	-	-	-
1988	5,887	3,984	N.A.	5,288	864	1,393	4,834	-	-	-
East North Central										
1970*	10,057	5,070	113	3,197	628	1,132	4,021	-	-	124
1980	11,253	6,202	140	4,056	768	1,237	4,238	-	-	N.A.
1981	11,481	6,386	N.A.	4,236	758	1,251	4,357	-	-	N.A.
1982	11,330	6,597	N.A.	4,417	773	1,268	4,410	-	-	N.A.
1983	11,644	6,902	N.A.	4,622	801	1,339	4,453	-	-	N.A.
1984	12,101	7,240	N.A.	4,891	840	1,366	4,553	-	-	N.A.
1988	12,869	7,724	N.A.	2,496	239	1,037	1,429	-	-	N.A.
West North Central										
1970*	1,587	594	-	571	23	-	438	-	-	-
1980	1,856	850	-	834	17	-	440	-	-	-
1981	1,819	846	-	828	18	-	450	-	-	-
1982	1,810	875	-	860	N.A.	-	459	-	-	-
1983	1,835	954	-	940	N.A.	-	467	-	-	-
1984	1,918	1,032	-	1,015	N.A.	-	483	-	-	-
1988	1,739	1,046	-	1,070	N.A.	-	485	-	-	-
South Atlantic										
1970*	13,623	3,520	339	1,275	1,723	182	9,514	6,194	5,770	1,382
1980	16,945	4,746	676	1,985	1,699	386	11,409	7,469	6,945	1,788
1981	17,297	4,898	762	2,017	1,722	397	11,620	7,712	7,234	1,688
1982	17,576	5,245	780	2,083	1,964	419	11,686	7,771	7,352	1,684
1983	17,717	5,441	818	2,119	2,019	406	11,674	7,713	7,281	1,696
1984	18,113	5,844	979	2,456	1,971	438	11,749	7,793	7,362	1,711
1988	19,637	6,439	1,046	3,138	1,675	579	12,678	8,133	7,704	2,015
East South Central										
1970*	7,137	2,792	833	747	739	473	3,439	2,232	2,168	626
1980	8,515	3,408	1,061	1,335	506	505	4,744	3,008	2,679	717
1981	8,922	3,529	1,112	1,399	502	516	5,041	3,296	2,934	723
1982	9,183	3,731	1,118	1,567	508	538	5,105	3,324	2,934	735
1983	9,635	3,938	1,130	1,764	486	558	5,326	3,371	2,968	729
1984	10,162	4,217	1,154	1,989	495	579	5,542	3,465	3,048	750
1988	10,803	4,376	1,085	2,474	173	644	6,025	3,855	3,435	804
West South Central										
1970*	7,106	3,188	721	1,130	1,247	88	3,172	1,704	1,442	871
1980	10,267	4,437	1,159	1,504	1,445	329	5,194	2,964	2,484	1,197
1981	10,375	4,517	1,342	1,494	1,311	370	5,254	2,948	2,470	1,253
1982	10,946	4,525	1,343	1,540	1,213	429	6,025	3,521	3,005	1,240
1983	10,719	4,549	1,335	1,540	1,231	442	5,789	3,568	3,154	1,239
1984	10,738	4,491	1,188	1,592	1,259	452	5,871	3,566	3,190	1,249
1988	12,183	5,326	1,151	2,342	1,291	543	6,542	3,880	3,414	1,490
Mountain and Pacific										
1970*	8,340	3,571	888	954	913	817	4,053	2,177	2,136	435
1980	9,716	4,483	1,279	1,451	953	800	4,881	2,526	2,479	441
1981	10,305	4,820	1,587	1,472	937	824	5,143	2,782	2,735	439
1982	10,449	4,988	1,770	1,429	924	865	5,223	2,785	2,741	431
1983	10,637	5,053	1,853	1,480	855	865	5,391	2,859	2,814	434
1984	10,898	5,204	1,861	1,662	805	876	5,523	3,011	2,965	444
1988	11,508	5,552	1,865	2,001	797	889	5,844	3,086	3,042	455

* Total capacity at end of year.
N.A. Not Available - = Zero

TABLE XVII (Cont.)

CAPACITY OF PAPER, PAPERBOARD AND WOOD PULP BY CENSUS DIVISION

1970, 1980 - 1984, 1988

ANNUAL CAPACITY - 000 SHORT TONS

	PAPERBOARD (Cont.)		Con-struction Paper & Board	WOOD PULP			Sulphate				
	Semi-Chemical	Recycled		Total **	Dis-solving	Sulphite	Bl. & Semi-Bl.	Un-bleached (1)	Semi-chemical	Mechan-ical	For Con-struction (2)
New England											
1970*	179	682	192	2,797	-	484	1,061	48	140	953	100
1980	N.A.	663	176	3,253	-	N.A.	1,757	70	N.A.	908	130
1981	N.A.	667	118	3,243	-	N.A.	1,816	N.A.	N.A.	952	105
1982	N.A.	680	73	3,317	-	N.A.	1,848	N.A.	N.A.	1,023	79
1983	N.A.	688	66	3.298	-	N.A.	1,890	N.A.	N.A.	971	80
1984	N.A.	711	64	3,425	-	N.A.	1,972	N.A.	N.A.	1,005	79
1988	N.A.	733	58	3,494	-	N.A.	1,997	N.A.	N.A.	1,045	79
Middle Atlantic											
1970*	-	2,087	856	1,357	-	143	312	-	325	247	244
1980	-	1,912	651	1,465	-	245	486	-	364	221	150
1981	-	1,769	626	1,504	-	N.A.	501	-	385	221	146
1982	-	1,702	532	1,474	-	N.A.	504	-	405	190	120
1983	-	1,531	557	1,473	-	N.A.	490	-	418	189	120
1984	-	1,430	600	1,457	-	N.A.	497	-	431	189	95
1988	-	1,429	474	1,382	-	N.A.	501	-	434	188	18
East North Central											
1970*	1,128	2,769	966	3,209	-	567	601	165	987	462	427
1980	1,475	2,762	813	3,532	-	535	834	216	1,284	319	344
1981	1,545	2,810	738	3,549	-	536	817	N.A.	1,305	362	309
1982	1,579	2,829	323	3,422	-	516	842	N.A.	1,322	387	130
1983	1,607	2,844	309	3,465	-	485	893	N.A.	1,338	398	122
1984	1,632	2,920	308	3,531	-	475	939	N.A.	1,350	409	128
1988	1,813	3,019	311	4,083	-	469	1,326	N.A.	1,405	520	131
West North Central											
1970*	176	262	555	959	-	44	206	24	265	266	153
1980	63	377	566	899	-	-	265	17	100	195	322
1981	N.A.	386	523	905	-	-	-----281-------		N.A.	197	331
1982	N.A.	395	476	875	-	-	-----277-------		N.A.	236	318
1983	N.A.	403	413	850	-	-	-----293-------		N.A.	245	268
1984	N.A.	416	403	899	-	-	N.A.	N.A.	N.A.	258	278
1988	N.A.	415	166	704	-	-	N.A.	N.A.	N.A.	280	59
South Atlantic											
1970*	1,103	834	589	14,598	600	2	4,222	8,163	913	385	313
1980	1,116	1,037	790	17,364	658	-	5,842	9,014	879	509	462
1981	1,158	1,062	779	17,814	656	-	6,064	9,159	893	593	448
1982	1,141	1,090	645	18,171	641	-	6,287	9,302	896	601	445
1983	1,130	1,136	601	18,164	620	N.A.	6,432	9,208	847	625	432
1984	1,056	1,189	521	18,592	580	-	6,893	9,207	835	821	256
1988	1,141	1,389	520	19,523	558	-	8,144	8,856	857	851	257
East South Central											
1970*	333	248	906	7,586	285	-	2,481	2,820	429	844	634
1980	672	347	363	9,251	N.A.	-	3,956	3,435	590	852	189
1981	669	353	352	9,653	N.A.	-	4,046	3,695	582	892	189
1982	682	364	347	9,750	N.A.	-	4,188	3,644	575	889	190
1983	854	372	371	10,212	N.A.	-	4,439	3,674	722	911	211
1984	941	385	402	10,597	N.A.	-	4,712	3,714	787	913	233
1988	970	396	402	11,471	N.A.	-	5,542	3,689	810	979	233
West South Central											
1970*	352	245	747	7,069	-	-	2,969	2,829	259	694	319
1980	708	326	635	10,059	-	-	3,896	4,326	620	979	238
1981	717	336	603	10,356	-	-	4,005	4,393	651	1,070	237
1982	909	357	396	10,907	-	-	4,044	4,724	823	1,165	151
1983	615	367	381	10,359	-	-	4,048	4,553	458	1,169	130
1984	686	370	376	10,491	-	-	4,093	4,593	531	1,159	115
1988	778	395	315	10,777	-	-	4,383	4,556	613	1,109	116
Mountain and Pacific											
1970*	485	957	716	8,896	883	1,163	2,147	2,950	366	787	597
1980	720	1,193	352	9,391	703	885	2,658	3,273	620	1,086	163
1981	706	1,215	342	9,807	693	824	2,801	3,507	600	1,208	175
1982	733	1,274	238	9,722	702	761	2,780	3,525	586	1,289	80
1983	748	1,352	192	9,768	649	793	2,816	3,531	590	1,307	81
1984	768	1,300	171	10,009	669	775	2,944	3,610	567	1,369	75
1988	762	1,541	111	10,264	657	790	3,016	3,782	547	1,398	74

(1) Includes screenings. (2) Excludes defibrated/exploded pulp capacity of mills that produce hard pressed board, 1980-1988.
* Total capacity at end of year.
** Includes soda pulp for 1970 as follows (000 Tons): New England - 10, Middle Atlantic - 86, East South Central - 93, Mountain and Pacific - 4. Other years included in sulphate pulp. N.A. Not Available - = Zero

TABLE XVIII

PAPER AND ALLIED PRODUCTS - 1983 DATA

	Number of All Employees (000)	Total Payroll ($000,000)	Number of Production Workers (000)	Wages of Production Workers	Value Added by Manufacture	Value of Shipments	Capital Expenditures
				--------------------Million Dollars-----------------			
NORTHEAST	**163.2**	**3,467.5**	**122.8**	**2,352.2**	**8,530.9**	**19,563.2**	**679.3**
New England	**58.9**	**1,296.2**	**44.7**	**885.3**	**3,171.1**	**7,221.5**	**279.2**
Maine	17.1	475.6	13.6	356.8	1,127.5	2,816.2	135.6
New Hampshire	6.5	135.2	4.6	82.4	338.7	786.9	23.1
Vermont							
Massachusetts	25.3	497.0	18.6	315.5	1,158.8	2,502.0	79.6
Rhode Island	2.9	41.0	2.4	27.7	88.4	179.3	1.7
Connecticut	7.1	147.4	5.5	102.9	457.7	937.1	39.2
Middle Atlantic	**104.3**	**2,171.3**	**78.1**	**1,466.9**	**5,359.8**	**12,341.7**	**400.1**
New York	40.2	794.9	31.0	554.9	1,687.9	3,968.2	146.0
New Jersey	27.4	555.6	19.9	343.2	1,263.1	2,980.3	89.1
Pennsylvania	36.7	820.8	27.2	568.8	2,408.8	5,393.2	165.0
NORTH CENTRAL#	**170.8**	**3,870.8**	**128.5**	**2,700.4**	**9,611.3**	**22,537.1**	**730.8**
East North Central	**135.9**	**3,116.4**	**102.3**	**2,172.1**	**7,632.9**	**18,079.2**	**599.1**
Ohio	30.6	686.5	23.3	484.7	1,423.4	3,529.8	91.5
Indiana	11.9	227.3	8.9	156.4	570.1	1,322.4	17.8
Illinois	31.7	651.6	23.1	406.8	1,541.5	3,542.5	118.2
Michigan	20.1	495.7	15.0	349.8	1,141.1	2,793.3	89.8
Wisconsin	41.6	1,055.3	32.0	774.4	2,956.8	6,891.2	281.8
West North Central#	**34.9**	**754.4**	**27.2**	**528.3**	**1,978.4**	**4,457.9**	**131.7**
Minnesota	13.7	334.2	10.8	239.1	779.0	1,776.5	81.2
Iowa	4.7	94.7	3.6	64.5	245.1	600.8	12.5
Missouri	12.3	246.1	9.6	172.2	705.1	1,571.0	28.2
North Dakota	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-
Kansas	4.2	79.4	3.2	52.5	249.2	509.6	9.8
SOUTH#	**199.6**	**4,672.0**	**152.9**	**3,370.0**	**12,752.3**	**30,767.5**	**2,785.9**
South Atlantic#	**104.9**	**2,381.3**	**80.2**	**1,698.7**	**6,029.0**	**14,871.1**	**1,428.0**
Delaware	2.6	53.7	1.8	33.6	102.7	537.8	4.0
Maryland	10.2	203.7	6.9	131.1	533.3	1,036.9	69.0
Virginia	16.6	347.6	12.6	242.5	1,009.7	2,074.6	84.1
West Virginia							
North Carolina	19.5	440.7	15.2	318.9	1,051.1	2,501.9	84.9
South Carolina	14.0	327.7	11.1	241.6	839.3	2,016.9	820.3
Georgia	27.4	677.2	21.3	489.8	1,793.8	4,638.1	212.4
Florida	14.6	330.7	11.3	241.2	699.1	2,064.9	153.3
East South Central	**49.3**	**1,207.9**	**37.9**	**881.9**	**3,959.0**	**8,437.6**	**1,031.6**
Kentucky	7.0	140.7	5.2	96.6	393.0	996.9	19.3
Tennessee	16.2	352.0	12.3	249.8	1,121.5	2,426.8	55.4
Alabama	19.5	546.3	15.3	409.3	2,040.2	3,987.7	316.5
Mississippi	6.6	168.9	5.1	126.2	404.3	1,026.2	640.4
West South Central	**45.4**	**1,082.8**	**34.8**	**789.4**	**2,764.3**	**7,458.8**	**326.3**
Arkansas	11.4	277.2	9.3	215.3	851.3	2,124.5	100.0
Louisiana	10.5	294.8	8.1	218.3	695.6	2,021.0	140.1
Oklahoma	2.8	67.0	2.3	51.5	216.9	577.3	(D)
Texas	20.7	443.8	15.1	304.3	1,000.5	2,736.0	86.2
WEST#	**58.9**	**1,523.1**	**45.3**	**1,100.7**	**3,930.6**	**9,895.3**	**435.7**
Mountain#	-	-	-	-	-	-	-
Montana	-	-	-	-	-	-	-
Idaho	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-
Colorado	-	-	-	-	-	-	-
New Mexico	-	-	-	-	-	-	-
Arizona	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-
Pacific#	**58.9**	**1,523.1**	**45.3**	**1,100.7**	**3,930.6**	**9,895.3**	**435.7**
Washington	15.3	455.7	11.9	339.8	1,168.5	2,925.8	214.9
Oregon	8.4	248.9	6.6	186.4	677.8	1,798.4	54.5
California	35.2	818.5	26.8	574.5	2,084.3	5,171.1	166.3
Hawaii	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-
TOTAL REPORTED	**592.5**	**13,533.4**	**450.5**	**9,523.3**	**34,825.1**	**82,763.1**	**4,631.7**
TOTAL U.S.A.	**606.7**	**13,842.8**	**461.2**	**9,747.4**	**35,611.6**	**84,587.0**	**4,705.1**

SOURCE: 1983 Data. Annual Survey of Manufacturers, U.S. Department of Commerce - Statistics for Divisions and States - 1983.
(D) - Data withheld to avoid disclosure of individual company data. # - Total Reported.
NOTE: Each state has at least one establishment in the Paper and Allied Products Industry. - No Data Reported.

SECTION III

INPUTS AND RELATED DATA

This section presents data on the inputs of labor and materials required to manufacture paper and paperboard. It also presents data on capital expenditures, labor productivity and expenditures for research and development.

Table IX shows the data on fuel and energy use by the paper industry. Data are shown for the years 1972--the first year such data were collected by the Energy and Materials Department of the API--and 1981-1985. This table shows that the shift away from petroleum products evident since the fuel crisis of 1972 continued in 1985, as the paper industry reduced its relative use of residual fuel oil and natural gas and further increased its relative use of hard fuels. The trend in the self-generation of energy also continued as did the decline in the total amount of energy required per ton of output. Chart 3 summarizes the trends.

Tables XX and XXI present data on the use of recyclable paper in the manufacture of paper and paperboard. The decline in paper and paperboard production in 1985 was accompanied by a larger decline in use of recycled paper, so that the utilization rate (ratio of recyclable paper consumption to paper and board production) declined slightly. At the same time, exports of recyclable papers showed a slight increase while imports declined a bit, but these changes were not large enough to keep the recovery rate (recovery of recyclable paper relative to new supply of paper and board) from also showing a slight decline.

Used corrugated continued to be the major recyclable grade, accounting for 49% of the total waste paper consumed at paper and board mills and 47% of the total recyclable paper collected. Used corrugated accounted for 40% of the total recyclable paper exports in 1985.

The total market and wood pulp production data shown in Tables XXIA and XXIIB were compiled from the API's Pulp, Materials and Technology Division reports. In addition, estimates are shown for production of defibrated and exploded wood pulp for screenings for paper and paperboard mills, based on information collected as part of the API's Annual Capacity Surveys.

The wood pulp consumption data for 1972-1984 in Table XXIII are largely taken from Bureau of the Census reports. The data for defibrated and screening pulps used at paper and paperboard mills, however, are based on data collected as part of the API's Capacity Survey. The 1985 data are estimated by the API.

Table XXIV shows data on wage rates and employment in the paper and allied products industry by major industry grouping. This information is drawn from the Bureau of Labor Statistics reports. The BLS also reports additional information on sectors within these groups, and such information may be obtained directly from that source.

Table XXV combines the information on the employment trends shown in Table XXIV with the output trends shown in the initial tables of this report. The data show output per production worker hour and output per all employee hour at pulp, paper and board mills for the period 1947 through 1985. The 1947-1984 data were published by the Bureau of Labor Statistics of the U.S. Department of Labor. The 1985 data are estimated by the Economics Department of the American Paper

Institute, based on employment trends published by the BLS, as shown in Table XXIV and the output data as reported by the API.

The table shows that this measure of productivity flattened in 1985, reflecting the decline in paper and paperboard production. However, the 1985 level of output per production worker hour reflected an average growth of 2.8% per year from 1977 (the base year of the survey). The increase in output per total employee hour was about 2.7% per year.

Table XXVI presents data on compensation of employees and related information as published by the Bureau of Economic Analysis as part of the Gross National Products Accounts. At the time of publication of this report, the BEA had not yet published data for 1985. However, it was possible to estimate the 1985 data on the basis of the BLS reports.

Table XXVII presents information on new plant and equipment expenditures by the paper industry. The first column shows the expenditures by paper and allied products companies as reported by the BEA in the Survey of Current Business; this is the only source of information on current expenditures by the industry. The data shown in column one refer to expenditures by paper and allied products companies, that is, those companies whose major line of business is in the paper and allied products industry. The other columns in the table show expenditures on new plant and equipment at paper and allied products establishments, regardless of ownership. This information is published by the Bureau of the Census in its Censuses and Surveys of Manufacture; the 1983 data shown are the latest available.

Prior to 1979 the two series were generally less than 10% apart. However, a change in the sampling procedure in 1979 used by the Survey of Manufactures resulted in low estimates of outlays in the establishment data. The 1982 Census of Manufactures reflected a 100% survey of the industry, and the 1982 data were within the previous ranges of the BEA data. However, the 1983 Survey data were again quite low relative to the BEA data. We understand that Commerce will change its method of estimating non-reporting mills in its 1984 Survey.

Table XXVIII is broken into two parts: XXVIIIA, which shows data on capital expenditures for environmental protection as published by the National Council of the Paper Industry for Air and Stream Improvement and Table XXVIIIB, which shows data on research and development expenditures by paper companies.

The data on research and development expenditures for the period through 1983 are reported by the National Science Foundation. The 1984-1986 data are those published by the McGraw-Hill Department of Economics. Their data indicate that the paper industry companies will continue to spend approximately 1% of total sales on R & D projects.

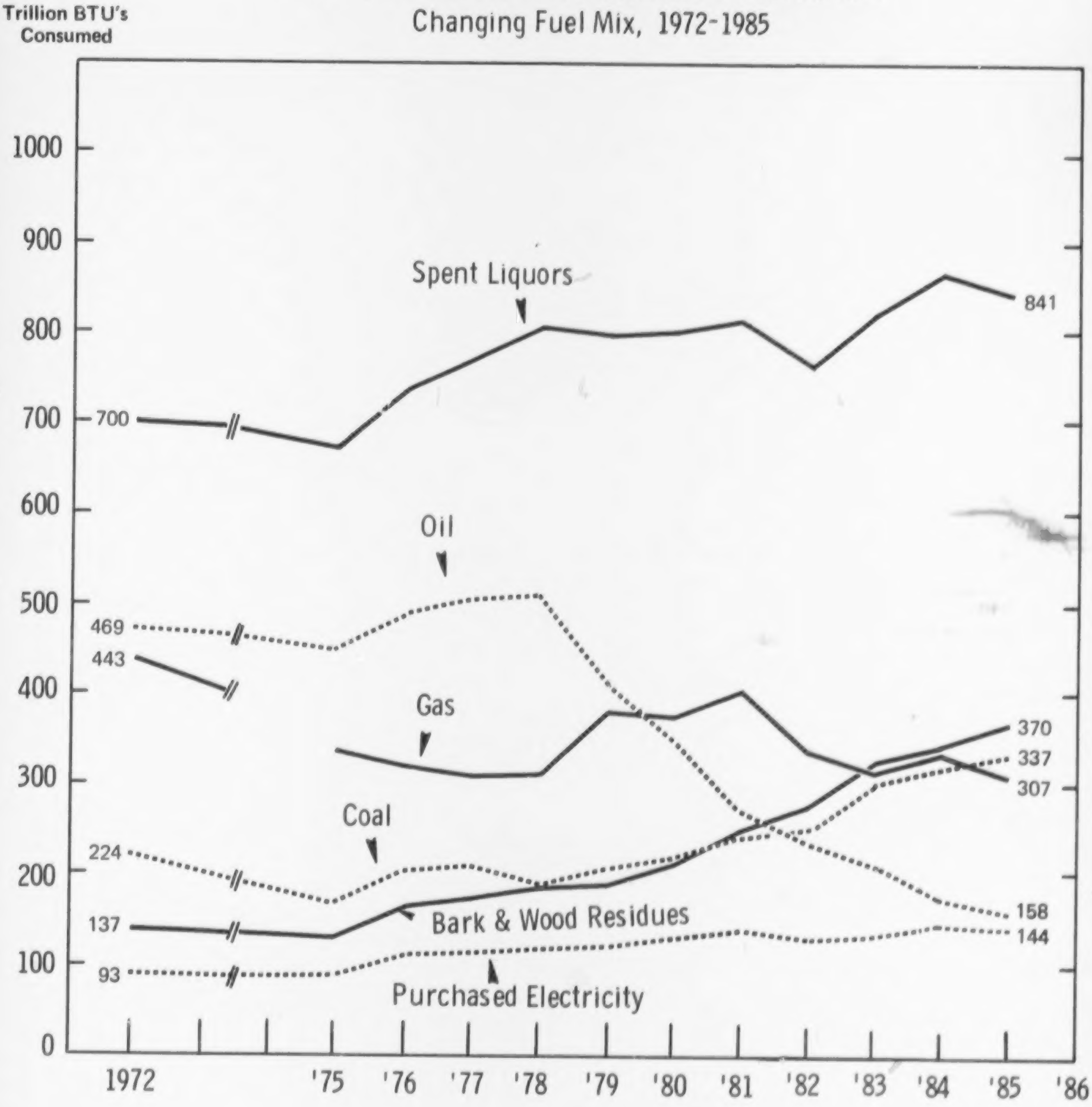
Table XXIX presents data on wood supply and demand. These are the same data published in our last few reports and are the most recent information available from the U.S. Department of Agriculture on ownership of timberlands and growth/removal data. They are included here because of the importance of this information to the paper industry. Unfortunately these reports are only published once every ten years or so, and interim reports do not include an update of this table.

CHART 2

ENERGY & MATERIALS DEPARTMENT
AMERICAN PAPER INSTITUTE
260 Madison Avenue, New York, N.Y. 10016

PULP, PAPER & PAPERBOARD INDUSTRY

Changing Fuel Mix, 1972-1985



April, 1986

TABLE XIX

UNITED STATES

PULP, PAPER AND PAPERBOARD INDUSTRY

ESTIMATED FUEL AND ENERGY USE

1972, 1981 - 1985

		1972*R			1981*R			1982*R		
SOURCE	Units	Estimated Use	Billion BTU's	% of Total+	Estimated Use	Billion BTU's	% of Total+	Estimated Use	Billion BTU's	% of Total+
Purchased Electricity	MM KWH	27,404.3	93,170.5	4.4	40,980.6	139,378.4	6.4	39,264.2	133,632.8	6.5
Purchased Steam	MM lbs	19,591.7	22,663.4	1.1	12,913.2	14,980.7	0.7	12,587.5	14,430.8	0.7
Coal	M Tons	9,024.9	224,484.5	10.7	10,129.5	247,794.4	11.4	10,375.0	252,882.7	12.4
Residual Fuel Oil	M 42 gal BBLs	71,114.0	447,313.2	21.2	41,842.4	263,296.6	12.2	36,694.1	231,318.6	11.3
Distillate Fuel Oil	M 42 gal BBLs	3,706.3	22,064.6	1.1	1,317.4	7,868.5	0.4	968.9	5,750.6	0.3
Liquid Propane Gas	M gal	28,604.6	2,632.3	0.1	22,112.6	2,036.9	0.1	27,300.8	2,510.2	0.1
Natural Gas	MMCF	434,294.4	442,768.2	21.0	391,922.3	400,604.8	18.5	332,188.8	340,806.3	16.7
Other Purchased Energy			1,637.6	0.1		2,805.1	0.1		3,187.3	0.2
Energy Sold			(13,154.2)			(20,802.2)			(17,210.2)	
Total Purchased Fossil Fuel and Energy			**1,243,580.1**	**59.7**		**1,057,963.2**	**49.8**		**967,309.1**	**48.2**
Hogged Fuel (50% Moisture Content)	M Tons	5,202.8	42,196.8	2.0	17,743.2	148,493.0	6.9	19,958.6	166,596.9	8.1
Bark (50% Moisture Content)	M Tons	10,371.3	94,639.0	4.5	12,185.7	105,613.3	4.9	12,968.1	112,132.7	5.5
Spent Liquor (Solids)	M Tons	55,298.2	699,947.1	33.2	67,272.7	815,124.9	37.6	62,085.6	763,340.8	37.3
Self-Generated Hydroelectric Power	MM KWH	2,700.7	9,186.2	0.4	2,767.6	9,411.8	0.4	2,845.0	9,680.8	0.5
Other Self-Generated Energy			2,984.1	0.2		7,987.7	0.4		7,879.3	0.4
Total Self-Generated & Waste Fuels			**848,953.2**	**40.3**		**1,0586,630.7**	**50.2**		**1,059,630.5**	**51.8**
Total Energy			**2,092,533.3**	**100.0**		**2,144,593.9**	**100.0**		**2,026,939.6**	**100.0**

* Based on a sample of 94.2% of total dried pulp, paper and paperboard for 1982, 93.2% for 1981, and 89.9% for 1972.
+ Determined by using "Total Energy" + "Energy Sold" as a denominator.
R Revised

SOURCE: Energy and Materials Department; Pulp, Materials and Technology Group; American Paper Institute.

TABLE XIX (Cont.)

UNITED STATES

PULP, PAPER AND PAPERBOARD INDUSTRY

ESTIMATED FUEL AND ENERGY USE

1972, 1981 - 1985

		1983*R			1984*R			1985		
SOURCE	Units	Estimated Use	Billion BTU's	% of Total+	Estimated Use	Billion BTU's	% of Total+	Estimated Use	Billion BTU's	% of Total+
Purchased Electricity	MM KWH	41,139.9	140,009.2	6.5	43,804.2	149,074.6	6.6	42,357.1	144,148.3	6.6
Purchased Steam	MM lbs	15,459.4	17,283.2	0.8	17,906.2	20,264.5	0.9	16,363.5	18,433.0	0.8
Coal	M Tons	12,313.3	304,630.1	14.1	13,438.3	332,363.7	14.8	13,620.3	336,951.0	15.3
Residual Fuel Oil	M 42 gal BBLs	32,526.1	204,840.7	9.4	26,159.2	164,767.5	7.3	23,799.8	149,959.4	6.8
Distillate Fuel Oil	M 42 gal BBLs	980.1	5,834.8	0.3	1,206.3	7,188.0	0.3	1,405.8	8,378.1	0.4
Liquid Propane Gas	M gal	25,113.1	2,309.4	0.1	34,267.6	3,147.8	0.1	36,916.7	3,390.2	0.2
Natural Gas	MMCF	308,961.4	314,217.9	14.5	328,074.9	333,668.8	14.8	302,476.8	307,460.7	14.0
Other Purchased Energy			3,023.7	0.1		3,432.4	0.2		2,962.0	0.1
Energy Sold			(22,451.1)			(25,096.3)			(24,664.2)	
Total Purchased Fossil Fuel and Energy			**969,697.9**	**45.8**		**988,811.0**	**45.0**		**947,018.5**	**44.2**
Hogged Fuel (50% Moisture Content)	M Tons	25,585.9	213,884.5	9.9	27,350.4	230,830.6	10.2	29,065.6	247,400.0	11.2
Bark (50% Moisture Content)	M Tons	13,651.1	118,449.3	5.5	14,295.2	124,862.4	5.5	14,293.9	122,765.4	5.6
Spent Liquor (Solids)	M Tons	68,495.6	819,651.7	37.9	72,151.5	863,361.1	38.3	70,078.1	841,372.4	38.2
Self-Generated Hydroelectric Power	MM KWH	2,856.2	9,719.9	0.4	2,948.6	10,036.4	0.5	2,507.6	8,536.8	0.4
Other Self-Generated Energy			11,525.2	0.5		11,155.3	0.5		8,259.3	0.4
Total Self-Generated & Waste Fuels			**1,173,230.6**	**54.2**		**1,240,515.8**	**55.0**		**1,228,333.9**	**55.8**
Total Energy			**2,142,928.5**	**100.0**		**2,229,326.8**	**100.0**		**2,175,352.4**	**100.0**

* Based on a sample of 93.4% of production of total dried pulp, paper and paperboard for 1985, 92.3% for 1984, and 93.0% for 1983.
+ Determined by using "Total Energy" + "Energy Sold" as a denominator.
R Revised

SOURCE: Energy and Materials Department; Pulp, Materials and Technology Group; American Paper Institute.

TABLE XX

UNITED STATES

RECYCLABLE PAPER UTILIZATION AND RECOVERY

1970 - 1985

(Thousands of Tons)

YEAR	Paper and Board Production	New Supply Paper and Board	Recyclable Paper Consumption at Paper & Board Mills	Recyclable Paper Utilization Rate	Recyclable Paper for Molded Pulp, Insulation and other Uses	Exports	Imports	Total Recyclable Paper Recovered	Recyclable Paper Recovery Rate
1970	51,671	55,969	11,803	22.8%	418	408	(67)	12,562	22.4%
1971	53,163	57,450	12,106	22.8%	442	419	(68)	12,899	22.4%
1972	57,434	62,040	12,925	22.5%	447	415	(88)	13,699	22.1%
1973	59,900	65,004	14,094	23.5%	499	683	(87)	15,189	23.4%
1974	59,040	63,308	13,982	23.6%	489	1,307	(89)	15,689	24.8%
1975	50,976	54,113	11,748	23.0%	535	861	(72)	13,072	24.2%
1976	58,329	62,015	13,622	23.3%	630	1,273	(106)	15,419	24.9%
1977	60,040	64,241	14,058	23.4%	870	1,512	(92)	16,348	25.4%
1978	62,047	67,787	14,760	23.7%	502	1,599	(70)	16,791	24.8%
1979	64,345	69,796	15,361	23.8%	509	2,233	(78)	18,025	25.8%
1980	63,536	67,102	14,922	23.4%	473	2,664	(87)	17,972	26.8%
1981	64,263	67,961	15,037	23.3%	488	2,213	(79)	17,659	26.0%
1982	60,988	64,766	14,433	23.7%	489	2,127	(74)	16,975	26.2%
1983	66,815R	71,233R	15,638	23.4%	485	2,573	(100)	18,596	26.1%
1984R	70,250	76,939	16,947	24.1%	460	3,235	(110)	20,309	26.4%
1985P	68,855	76,300	16,371	23.8%	475	3,286	(87)	20,045	26.3%

Paper and Board Production includes all grades of paper, paperboard, wet machine board, construction paper and board, excluding hard pressed board.

New Supply equals production plus imports less exports, excluding hard pressed board. Imports and exports include paper and paperboard converted products.

Utilization Rate is the ratio of recyclable paper consumption to total production of paper and board.

Recovery Rate is the ratio of recyclable paper collected to new supply of paper and paperboard.

Total Recyclable Paper Recovered is the sum of Recyclable Paper Consumption at Paper and Board Mills, other uses and exports less imports.

P - Preliminary

R - Revised

TABLE XXI

UNITED STATES

RECYCLABLE PAPER RECOVERY

1977-1985

(Thousands of Tons)

GRADE AND YEAR	Consumption at Paper and Board Mills	Consumption for Molded Pulp, Insulation and Other Uses	Exports	Sub Total	Imports	Total
Used Corrugated						
1977	6,205	-	592	6,797	(30)	6,767
1978	6,721	-	577	7,298	(7)	7,291
1979	6,967	-	960	7,927	(11)	7,916
1980	6,866	-	1,209	8,075	(13)	8,062
1981	6,910	-	991	7,901	(12)	7,889
1982	6,770	-	887	7,657	(11)	7,646
1983	7,443	-	993	8,436	(14)	8,422
1984R	7,972	-	1,261	9,233	(17)	9,216
1985P	7,899	-	1,311	9,210	(5)	9,205
Old Newspapers						
1977	2,057	870	316	3,243	(42)	3,201
1978	2,000	502	366	2,868	(6)	2,862
1979	2,321	509	336	3,166	(4)	3,162
1980	2,391	473	425	3,289	(10)	3,279
1981	2,372	488	425	3,285	(9)	3,276
1982	2,486	489	439	3,414	(12)	3,402
1983	2,508	485	461	3,454	(18)	3,436
1984R	2,735	460	539	3,734	(15)	3,719
1985P	2,696	475	626	3,797	(29)	3,768
Mixed Papers						
1977	2,773	-	341	3,114	-	3,114
1978	2,729	-	471	3,200	(52)	3,148
1979	2,648	-	648	3,296	(57)	3,239
1980	2,268	-	649	2,917	(55)	2,862
1981	2,233	-	474	2,707	(50)	2,657
1982	1,707	-	497	2,204	(45)	2,159
1983	1,908	-	705	2,613	(62)	2,551
1984R	1,975	-	886	2,861	(69)	2,792
1985P	1,902	-	880	2,782	(44)	2,738
Pulp Substitutes						
1977	2,079	-	263	2,342	(20)	2,322
1978	2,242	-	92	2,334	(2)	2,332
1979	2,308	-	154	2,462	(4)	2,458
1980	2,254	-	205	2,459	(9)	2,450
1981	2,307	-	192	2,499	(8)	2,491
1982	2,247	-	164	2,411	(1)	2,410
1983	2,456	-	190	2,646	(5)	2,641
1984R	2,627	-	252	2,879	(6)	2,873
1985P	2,494	-	179	2,673	(3)	2,670
High Grade Deinking						
1977	944	-	-	944	-	944
1978	1,068	-	93	1,161	(3)	1,158
1979	1,117	-	135	1,252	(2)	1,250
1980	1,142	-	176	1,318	(*)	1,318
1981	1,216	-	130	1,346	(*)	1,346
1982	1,224	-	140	1,364	(6)	1,358
1983	1,323	-	225	1,548	(1)	1,547
1984R	1,415	-	297	1,712	(3)	1,709
1985P	1,380	-	290	1,670	(6)	1,664
Total All Grades						
1977	14,058	870	1,512	16,440	(92)	16,348
1978	14,760	502	1,599	16,861	(70)	16,791
1979	15,361	509	2,233	18,103	(78)	18,025
1980	14,922	472	2,664	18,058	(87)	17,971
1981	15,037	488	2,213	17,738	(79)	17,659
1982	14,433	489	2,127	17,049	(74)	16,975
1983	15,638	485	2,573	18,696	(100)	18,596
1984R	16,724	460	3,235	20,419	(110)	20,309
1985	16,371	475	3,286	20,132	(87)	20,045

SOURCE: 1977-1984 API Capacity Surveys
1985 API Paper Recycling Division.

* Less than 500 tons R = Revised P = Preliminary - = Zero

TABLE XXIIA

UNITED STATES PRODUCTION OF WOOD PULP

1973 - 1985

(000 Short Tons)

	1973R	1974R	1975R	1976R	1977R	1978R	1979R	1980R	1981R	1982R	1983R	1984R	1985
WOOD PULP, TOTAL[1]	46,297	45,950	41,582	46,505	47,979	48,320	50,836	52,229	53,397	50,379	53,504	56,521	55,027
Total API Grades[2]	45,225	44,839	40,584	45,385	46,648	46,888	49,366	50,734	52,042	49,334	52,454	55,471	54,147
Sp. Alpha & Dissolving Grades	1,673	1,772	1,368	1,485	1,465	1,411	1,497	1,508	1,353	1,092	1,261	1,206	1,174
Paper and Board Grades	44,624	44,178	40,214	45,020	46,513	46,908	49,340	50,721	52,045	49,287	52,242	55,315	53,853
API Paper & Board Grades	43,552	43,067	39,216	43,900	45,184	45,476	47,868	49,226	50,689	48,242	51,192	54,264	52,973
Total Sulfite	2,293	2,304	2,025	2,169	2,042	1,750	1,775	1,844	1,802	1,587	1,616	1,618	1,560
Bleached Sulfite	1,920	1,914	1,659	1,750	1,653	1,420	1,379	1,459	1,403	1,242	1,306	1,359	1,364
Unbl. Sulfite	373	390	366	419	389	330	396	385	399	345	310	259	196
Total Sulfate	32,579	32,483	29,357	33,599	34,857	36,095	37,641	38,591	39,644	37,891	40,697	43,071	42,136
Bl. & Semi-Bl.[3]	14,999	15,500	14,130	15,773	16,452	17,113	18,051	19,000	20,070	19,721	21,107	22,350	22,626
Unbl. Sulfate	17,580	16,983	15,227	17,826	18,405	18,982	19,590	19,591	19,574	18,170	19,590	20,721	19,510
Total Groundwood	4,813	4,492	4,414	4,304	4,409	4,140	4,392	4,766	5,319	5,064	5,067	5,506	5,251
Stone and Refiner	4,813	4,492	4,414	4,304	4,047	3,638	3,755	3,602	3,735	3,395	3,225	3,361	3,118
Thermo-mechanical					362	502	637	1,164	1,584	1,669	1,842	2,145	2,133
Semichemical	3,867	3,788	3,420	3,828	3,876	3,491	4,060	4,025	3,924	3,700	3,812	4,069	4,026
Total Other	1,072	1,111	998	1,120	1,330	1,432	1,470	1,495	1,355	1,045	1,050	1,050	880
Defib. or Exploded[4]	950	980	890	1,010	1,120	1,122	1,070	975	850	625	620	620	620E
Scr., Damaged[5]	122	131	108E	110E	110E	110E	100E	80E	90E	20E	30E	30E	30E
Groundwood					100E	200E	300E	440	415	400	400	400E	230E

SOURCE: Pulp, Materials and Technology Group - API

[1] These totals are comparable to the capacity data published on Table XIII, Wood Pulp Capacity. Excludes defibrated and exploded wood pulp for hardboard.

[2] Excludes Total Other

[3] Includes Soda Pulp

[4] Estimated to exclude wood pulp for hardboard. Source of original data is Bureau of the Census.

[5] Source: 1972-1975: U.S. Bureau of the Census

E - Estimated

TABLE XXIIB

UNITED STATES PRODUCTION OF MARKET WOOD PULP

1973 - 1985

(000 Short Tons)

	1973R	1974	1975	1976	1977	1978R	1979	1980R	1981	1982	1983R	1984	1985
MARKET WOOD PULP, TOTAL	4,923	5,145	4,344	4,870	4,820	5,162	5,678	6,465	6,203	5,732	6,526	6,899	6,800
Sp. Alpha & Dissolving	1,494	1,611	1,233	1,370	1,462	1,406	1,497	1,506	1,350	1,089	1,260	1,204	1,124
Paper Grade Chemical Total	3,407	3,518	3,074	3,430	3,263	3,674	4,117	4,891	4,852	4,643	5,255	5,680	5,662
Bleached Sulfite	465	392	314	292	219	232	248	349	263	205	230	262	258
Unbleached Sulfite	27	30	27	28	13	19	28	32	3	0	0	0	0
Bl. & Semi- Bl. Sulfate	2,813	2,905	2,646	2,997	2,895	3,294	3,729	4,378	4,442	4,315	4,883	5,264	5,255
Unbleached Sulfate	102	191	87	113	136	129	112	132	144	123	142	154	149
Paper Grades - Other	22	18	36	70	94	81	63	69	0	1	12	15	15

SOURCE: Pulp, Materials and Technology Group - API

TABLE XXIII

UNITED STATES CONSUMPTION OF PULPWOOD, WOOD PULP AND OTHER FIBROUS MATERIALS IN PAPER AND PAPERBOARD MILLS

1972 - 1985

(000 Short Tons)

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983R	1984R	1985
WOOD PULP, TOTAL*	**47,267**	**46,736**	**40,863**	**45,894**	**46,824**	**48,223**	**50,058**	**51,181**	**51,437**	**48,706**	**52,072**	**55,603**	**54,225**
Special Alpha and Dissolving Grades	73	58	42	36	44	42	42	41	38	30	37	34	30
Bleached Sulfite	2,009	2,136	1,768	1,985	1,884	1,587	1,726	1,664	1,591	1,500	1,592	1,661	1,651
Unbleached Sulfite	526	547	442	501	481	407	468	464	464	465	435	416	389
Bleached Sulfate	14,341	14,608	12,919	14,447	15,228	16,043	16,685)	18,941 1/	18,992	19,090	20,376	21,801	22,163
Semi-bleached Sulfate	1,812	1,626	1,453	1,517	1,378	1,795	1,769)						
Unbleached Sulfate	18,437	17,825	15,430	17,527	18,149	18,694	19,307)	19,707	19,887	18,252	19,803	21,137	19,872
Soda	221	231	166	121	121	118	127)						
Groundwood	4,935	5,004	4,546	5,085	4,497	4,281	4,396	4,277	4,391	3,889	3,944	3,968	3,539
Thermomechanical	-	-	-	-	368	441	559	1,078	1,468	1,471	1,670	2,132	2,120
Semichemical	3,785	3,628	3,120	3,546	3,521	3,609	3,860	3,948	3,666	3,364	3,565	3,805	3,811
Defibrated or Expl. E	993	916	849	993	1,019	1,075	1,015	955	850	625	) 650)	) 650)	) 650)
Scngs, Damaged, etc.	137	157	125	135	134	131	104	106	90	20			
OTHER FIBROUS MAT., TOTAL	**14,977**	**14,820**	**12,373**	**14,364**	**14,884**	**15,584**	**16,088**	**15,524**	**15,629**	**14,882**	**16,069**	**17,089**	**16,372**
Recyclable Paper	14,094	13,982	11,748	13,622	14,058	14,760	15,361	14,922	15,037	14,433	15,638	16,724	16,022
All Other, incl. Straw, Rags, etc.	883	838	625	742	826	824	727	602	592	449	431	365	350
PULPWOOD, TOTAL**	**73,576**	**74,459**	**65,421**	**73,209**	**73,970**	**77,290**	**79,566**	**79,703**	**81,178**	**76,257**	**85,442**	**87,646**	**85,744**
Softwood	54,868	54,634	48,932	54,789	55,509	57,096	58,654	58,809	59,631	55,954	61,947	62,558	60,610
Hardwood	18,708	19,825	16,489	18,420	18,461	20,194	20,912	20,894	21,547	20,303	23,495	25,008	25,134
Receipts of Residues	25,751	29,949	28,694	28,165	29,653	30,380	30,015	29,402	30,590	31,152	32,755	32,072	30,496
CONSUMPTION OF WOOD PULP IN OTHER THAN PAPER AND PAPERBOARD MILLS													
TOTAL WOOD PULP	**1,047**	**1,152**	**785**	**886**	**879**	**884**	**909**	**825**	**788**	**N.A.**	**N.A.**	**N.A.**	**N.A.**
Sp.Alpha & Dis. Grades	869	937	600	705	702	676	701	629	609	N.A.	N.A.	N.A.	N.A.
Other Wood Pulps	178	216	185	181	177	208	208	196	179	N.A.	N.A.	N.A.	N.A.

SOURCE: Consumption in paper and board mills of wood pulp - 1972-1984 - Bureau of the Census, Industry Division
1985 American Paper Institute
Consumption of recyclable paper - American Paper Institute
Consumption of other fibrous materials - Bureau of the Census, Industry Division, 1971-1980; 1981-1985, A.P.I.
Consumption of pulpwood - American Pulpwood Association

* Includes figures for Alaska; excludes wood pulp for hard pressed board.
** Includes slabs, chips and mill waste. All pulpwood data in thousands of cords.
R - Revised   E - Estimated by American Paper Institute

Note: Details may not add to totals due to rounding of figures to nearest thousand.
Recyclable paper consumption - Bureau of the Census data (000 tons)
1972 - 11,703; 1973 - 12,374; 1974 - 12,098; 1975 - 10,367; 1976 - 11,874; 1977 - 12,103;
1978 - 12,586; 1979 - 13,012; 1980 - 12,583; 1981 - 12,872; 1982 - 13,563; 1983 - 14,170; 1984 - 15,033; 1985 - Not Available

1/ Soda included in bleached and semibleached sulfate wood pulp.
N.A. - Not Available

TABLE XXIV

WAGE RATES AND EMPLOYMENT

PAPER AND ALLIED PRODUCTS INDUSTRY

1968 - 1985

YEAR	Average Hourly Earnings (Dollars)	Average Weekly Earnings (Dollars)	Average Weekly Hours	Employees	
				Total	Production Workers
				-------(Thousands)--------	
PAPER AND ALLIED PRODUCTS - SIC 26					
1968	3.05	130.85	42.9	691.2	536.2
1969	3.24	139.32	43.0	711.1	550.6
1970	3.44	144.14	41.9	705.5	543.2
1971	3.67	154.51	42.1	681.9	521.8
1972	3.95	169.06	42.8R	688.9	531.6
1973	4.20	180.18	42.9	704.6	543.1
1974	4.53	191.17R	42.2	706.1	544.3
1975	5.01	208.42	41.6	642.0	479.7
1976	5.47	232.48	42.5	675.5	508.3
1977	5.96	255.68	42.9	691.6	518.2
1978	6.52	279.71	42.9	698.7	524.7
1979	7.13	303.74	42.6	706.8	535.6
1980	7.84	330.85	42.2	692.8	522.7
1981	8.60	365.50	42.5	688.5	518.4
1982	9.32	389.58	41.8	662.4	493.9
1983	9.94	423.44	42.6	661.6	494.7
1984	10.44	449.96	43.1	682.3	512.8
1985	10.82	466.34	43.1	683.1	516.4
PAPER AND PULP* - SIC 261,262,266					
1968	3.35	149.08	44.5	217.7	170.2
1969	3.58	160.38	44.8	222.7	173.6
1970	3.80	166.06	43.7	218.8	168.6
1971	4.05	177.80	43.9	208.8	160.6
1972	4.37	194.03	44.4	206.5	160.6
1973	4.66	208.77	44.8	208.7	162.7
1974	5.00	222.50	44.5	210.7	164.0
1975	5.54	240.44	43.4	196.8	150.3
1976	6.12	272.95	44.6	203.9	156.4
1977	6.75	302.40	44.8	205.4	157.3
1978	7.44	334.80	45.0	200.1	151.1
1979	8.26	372.53	45.1	205.9	154.7
1980	9.15	407.18	44.5	203.3	152.2
1981	10.06	449.68	44.7	203.8	153.2
1982	10.87	480.45	44.2	198.5	149.0
1983	11.71	521.10	44.5	199.3	149.9
1984	12.45	560.25	45.0	204.9	154.3
1985	13.11	589.95	45.0	200.3	152.0
PAPER MILLS EXCEPT BUILDING PAPER - SIC 262					
1972	4.36	194.46	44.6	179.2	138.6
1973	4.64	209.26	45.1	180.8	140.1
1974	4.97	222.66	44.8	182.7	141.1
1975	5.52	240.67	43.6	170.9	129.5
1976	6.10	273.89	44.9	176.4	134.2
1977	6.70	300.83	44.9	175.7	133.6
1978	7.43	336.58	45.3	170.3	127.6
1979	8.24	374.92	45.5	176.8	131.5
1980	9.09	408.14	44.9	175.0	129.7
1981	10.00	454.00	45.4	175.6	130.9
1982	10.86	485.44	44.7	171.3	127.2
1983	11.70	524.16	44.8	173.7	129.1
1984	12.46	563.19	45.2	178.9	133.2
1985	13.21	587.09	45.2	175.1	131.7

* Includes Building Paper and Board Mills

SOURCE: Bureau of Labor Statistics, Employment and Earnings, Tables B-2 and C-2, U.S. Department of Labor, Washington, D.C.

NOTE: Data on hours and earnings refer to Production Non-Supervisory Workers. R - Revised

TABLE XXIV (Cont.)

WAGE RATES AND EMPLOYMENT

PAPER AND ALLIED PRODUCTS INDUSTRY

1968 - 1985

YEAR	Average Hourly Earnings (Dollars)	Average Weekly Earnings (Dollars)	Average Weekly Hours	Employees	
				Total	Production Workers
				-------(Thousands)--------	
PAPERBOARD - SIC 263					
1968	3.37	152.32	45.2	72.0	57.2
1969	3.61	163.53	45.3	71.1	56.4
1970	3.86	171.77	44.5	71.1	56.8
1971	4.14	184.23	44.5	66.0	51.4
1972	4.47	200.70	44.9	66.0	52.6
1973	4.78	212.23	44.4	66.1	52.5
1974	5.14	225.65	43.9	65.5	52.3
1975	5.74	243.95	42.5	60.8	47.9
1976	6.40	280.32	43.8	65.6	52.2
1977	6.94	312.30	45.0	66.9	52.4
1978	7.67	340.55	44.4	67.3	52.8
1979	8.38	367.88	43.9	65.5	51.9
1980	9.28	408.32	44.0	65.1	51.0
1981	10.23	450.12	44.0	63.5	49.8
1982	11.11	474.40	42.7	60.4	46.7
1983	12.12	526.01	43.4	58.9	45.1
1984	12.99	576.76	44.4	59.1	45.3
1985	13.60	599.76	44.1	56.4	43.1
MISCELLANEOUS CONVERTED PAPER PRODUCTS - SIC 264					
1968	2.77	113.99	41.3	179.8	131.6
1969	2.94	121.30	41.4	187.6	136.4
1970	3.12	126.05	40.4	190.1	138.4
1971	3.36	136.42	40.6	190.2	139.2
1972	3.61	151.26	41.9	196.4	143.1
1973	3.85	161.32	41.9	205.4	148.8
1974	4.19	173.05	41.3	210.6	155.8
1975	4.57	185.09	40.5	190.5	133.6
1976	4.92	202.21	41.1	200.8	140.8
1977	5.33	219.60	41.2	210.2	147.5
1978	5.82	239.20	41.1	217.8	155.9
1979	6.31	259.34	41.1	221.4	163.7
1980	6.89	279.73	40.6	219.6	162.7
1981	7.58	310.02	40.9	220.1	162.0
1982	8.20	332.10	40.5	213.5	154.7
1983	8.71	361.47	41.5	212.9	154.7
1984	9.08	378.64	41.7	222.1	162.1
1985	9.30	389.67	41.9	231.2	170.0
PAPERBOARD CONTAINERS & BOXES - SIC 265					
1968	2.82	117.88	41.9	221.7	177.2
1969	3.00	125.10	41.7	229.6	184.2
1970	3.18	128.79	40.5	225.5	179.3
1971	3.40	139.06	40.9	216.8	170.6
1972	3.64	151.06	41.5	219.9	175.3
1973	3.88	160.63	41.4	224.5	179.0
1974	4.16	168.06	40.4	219.3	172.2
1975	4.59	186.35	40.6	193.9	148.0
1976	4.95	204.44	41.3	205.2	158.9
1977	5.36	224.05	41.8	209.1	161.0
1978	5.89	247.97	42.1	213.5	164.9
1979	6.37	263.08	41.3	214.0	165.4
1980	6.94	285.93	41.2	204.9	156.8
1981	7.53	312.50	41.5	201.2	153.5
1982	8.16	329.66	40.4	190.0	143.6
1983	8.59	358.20	41.7	190.5	145.0
1984	8.90	376.47	42.3	196.2	151.0
1985	9.21	387.74	42.1	195.3	151.1

SOURCE: Bureau of Labor Statistics, Employment and Earnings, Tables B-2 & C-2, & Labstat Series Report, U.S. Dept. of Labor, Washington, DC

NOTE: Data on hours and earnings refer to Production and Non-Supervisory Workers. R - Revised

TABLE XXV

PULP, PAPER AND BOARD MILLS

OUTPUT PER MAN-HOUR

1947 - 1985

YEAR	Output per Employee Hour			Employee Hours	
	Production Workers	All Employees	Output	Production Workers	All Employees
	-1977 = 100-				
1947	29.4	32.4	31.7	108.0	97.9
1948	N.A.	N.A.	33.0	N.A.	N.A.
1949	31.3	33.8	30.7	98.0	90.7
1950	35.0	38.1	36.7	104.8	96.3
1951	36.8	39.8	40.0	108.7	100.6
1952	36.3	38.9	38.0	104.7	97.6
1953	36.3	38.9	40.6	111.8	104.3
1954	37.9	40.4	41.4	109.1	102.5
1955	40.4	43.2	46.4	114.9	107.3
1956	42.5	45.1	49.2	115.7	109.1
1957	42.9	45.1	47.9	111.7	106.3
1958	44.1	46.2	48.1	109.1	104.2
1959	46.9	49.0	53.6	114.4	109.4
1960	48.8	50.6	54.8	112.2	108.3
1961	52.2	53.9	56.5	108.3	104.9
1962	54.2	56.0	59.5	109.8	106.3
1963	57.4	59.3	62.7	109.2	105.8
1964	60.3	62.3	66.7	110.6	107.0
1965	63.7	65.4	70.6	110.9	107.9
1966	66.9	68.7	76.1	113.8	110.8
1967	66.1	67.6	75.9	114.8	112.2
1968	69.9	71.9	81.6	116.8	113.5
1969	72.5	74.8	85.9	118.5	114.9
1970	75.8	77.5	85.1	112.2	109.8
1971	80.1	81.0	86.0	107.3	106.2
1972	86.7	87.9	92.8	107.0	105.6
1973	90.2	91.5	97.1	107.7	106.1
1974	90.5	91.5	96.7	106.8	105.7
1975	87.7	86.7	82.1	93.6	94.7
1976	95.0	95.0	95.6	100.6	100.6
1977	100.0	100.0	100.0	100.0	100.0
1978	103.7	103.2	102.4	98.7	99.2
1979	106.2	105.4	106.0	99.8	100.6
1980	106.4	105.2	105.3	99.0	100.1
1981	105.5	104.4	102.4	97.1	98.1
1982R	113.7	111.3	103.1	90.7	92.6
1983R	121.8	120.0	111.6	91.6	93.0
1984R	125.5	123.9	117.6	93.7	94.9
1985E	125.7	124.7	115.6	91.6	92.6

SOURCE: U.S. Department of Labor - Bureau of Labor Statistics.
E - Estimated by A.P.I.   R - Revised

TABLE XXVI

COMPENSATION OF EMPLOYEES IN THE PAPER AND ALLIED PRODUCTS INDUSTRY IN THE GROSS NATIONAL PRODUCT ACCOUNTSNUSO

1948 - 1985

	COMPENSATION OF EMPLOYEES						
YEAR	Total	Wages and Salaries	Supplements to Wages & Salaries*	Corporate Capital Consumption Allowance	Number of Full Time Equivalent Employees (000)	Number of Full Time & Part Time Employees (000)	Average Annual Earnings per Full Time Equivalent Employee (Dollars)
	(Millions of Dollars)						
1948	1,577	1,501	76	122	470	470	3,194
1949	1,548	1,465	83	140	451	453	3,248
1950	1,788	1,686	102	154	482	485	3,498
1951	2,057	1,923	134	179	504	510	3,815
1952	2,143	2,004	139	204	497	504	4,032
1953	2,375	2,224	151	234	523	533	4,252
1954	2,457	2,292	165	275	522	534	4,391
1955	2,684	2,499	185	338	537	551	4,654
1956	2,919	2,712	207	370	554	570	4,895
1957	3,038	2,812	226	419	555	567	5,067
1958	3,117	2,868	249	464	542	558	5,292
1959	3,436	3,152	284	474	567	582	5,559
1960	3,596	3,288	308	496	576	592	5,708
1961	3,791	3,464	327	541	582	599	5,952
1962	4,042	3,678	364	653	598	615	6,151
1963	4,222	3,828	394	665	605	622	6,327
1964	4,446	4,028	418	721	607	625	6,636
1965	4,696	4,250	446	734	628	640	6,768
1966	5,133	4,616	517	771	656	667	7,037
1967	5,415	4,876	539	837	672	680	7,256
1968	5,885	5,267	618	898	681	691	7,734
1969	6,496	5,768	728	955	705	713	8,182
1970	6,788	5,994	794	1,007	694	702	8,637
1971	7,039	6,172	867	1,060	669	679	9,226
1972	7,708	6,704	1,004	1,167	674	684	9,947
1973	8,466	7,290	1,176	1,249	689	700	10,581
1974	9,216	7,885	1,333	1,281	688	701	11,461
1975	9,350	7,921	1,429	1,435	628	642	12,613
1976	10,909	9,167	1,742	1,667	662	673	13,847
1977	12,192	10,182	2,011	1,889	679	692	14,996
1978	13,498	11,219	2,258	2,126	690	700	16,259
1979	14,965	12,379	2,538	2,128	697	707	17,760
1980	16,199R	13,384	2,815R	2,564	681	691	19,653
1981	17,658R	14,541R	3,114R	2,842	679	687	21,409
1982R	18,250	14,994	3,256	3,287	649	663	23,103
1983R	19,459	15,994	3,465	3,403E	650	662	24,606
1984R	21,229	17,499	3,730	N.A.	667	681	26,235
1985E	22,221	18,364	3,857	N.A.	671	683	27,368

SOURCE: Bureau of Economic Analysis, Department of Commerce, Gross National Product Accounts, Table 6
* Total Less Wages and Salaries
E - Estimated by A.P.I. R - Revised N.A. - Not Available

TABLE XXVII

PAPER AND ALLIED PRODUCTS

CAPITAL EXPENDITURES

1947 - 1985

(Million Dollars)

		AT PAPER AND ALLIED PRODUCTS ESTABLISHMENTS								
			PRIMARY MILLS					CONVERTED PLANTS		
YEAR	BY PAPER AND ALLIED PRODUCTS COMPANIES	Total SIC 26	Total Primary 261-3, 266	Pulp Mills 261	Paper Mills 262	Paperboard Mills 263	Building Paper & Board Mills 266	Total Converting 264,5	Converted Paper Products 264	Paperboard Containers & Boxes 265
1947	370	407	291	86	205		a	116	64	52
1948	383	N.A.								
1949	298	315	212	212a			a	103	52	51
1950	327	299	212	212a			a	87	51	36
1951	420	389	263	263a			a	126	61	65
1952	364	371	274	274a			a	97	61	36
1953	409	397	276	276a			a	121	74	47
1954	455	533	371	371a			a	162	162	
1955	510	556	389	389a			a	167	167	
1956	800	750	548	548a			a	202	106	96
1957	810	767	585	585a			a	182	182	
1958	570	634	417	43	259	102	13	218	82	136
1959	650	686	453	92	215	117	29b	233	79i	154
1960	770	658	442	35	246	136	25b	216	107i	109
1961	620	685	473	49	285	108	31b	212	99	113
1962	620	742	459	34	277	126	22b	283	122i	161
1963	700	708	440	39	233	160	8	270	129	141
1964	910	902	589	67	296	214	12	313	153	160
1965	1,020	1,186	826	112	496	200	18	359	180	179
1966	1,320	1,422	961	113	575	255	18	461	212	249
1967	1,490	1,585	1,122	122	581	399	20	463	226	237
1968	1,220	1,238	766	77	487	185	17	473	231	242
1969	1,620	1,421	879	133	555	158	33	543	263	280
1970	1,740	1,397	882	122	503	239	18	516	289	227
1971	1,290	1,197	755	135	374	228	18	442	262	180
1972	1,460	1,335	841	136	372	314	19	495	289	206
1973	1,990	1,530	997	119	508	344	26	531	304	227
1974	2,880	2,214	1,558	136	723	637	63	657	315	342
1975	2,930	2,718	1,959	294	832	807	26	759	412	347
1976	2,990	3,010	2,282	375	1,044	844	19	729	394	335
1977	3,480	3,295	2,367	301	1,115	934	17	928	507	421
1978	3,800	3,736	2,638	195	1,424	1,000	19	1,100	604	496
1979	5,240	4,447*	3,231	240	1,714	1,229	48	1,216	725	491
1980	6,520	5,128*	3,726	250	1,897	1,539	40	1,402	774	628
1981	6,110	5,202	3,957	521	2,435	974	27	1,245	746	499
1982	5,600	5,087	3,820	659	1,869	1,278	14	1,267	780	487
1983	5,920R	4,987	3,497	916	2,239	527	15	1,290	820	470
1984	7,210R	5,302	3,713	600	2,412	680	21	1,587	906	681
1985	8,530	N.A.								

SOURCE: Paper and Allied Products Companies, Bureau of Economic Analysis
Paper and Allied Products Establishments, Bureau of the Census

NOTE: Establishment data for 1982, 1977, 1972, 1967, 1962, 1958, 1954 and 1947 from Census of Manufactures; data for other years from Survey of Manufactures.

NOTES:
(a) Capital expenditures at building paper and board mills included with expenditures at pulp, paper and board mills.
(b) Data as originally published.
(i) Imputed from available data.
N.A. Not Available R - Revised
* Based on revised sampling techniques which resulted in some understatement of the total.

TABLE XXVIIIA

PULP AND PAPER INDUSTRY ENVIRONMENTAL PROTECTION CAPITAL EXPENDITURES THROUGH 1985 AND PLANNED THROUGH 1986

1966-1986

(Million Dollars)

YEAR	Water	Air	Solid Waste Disposal From Manufacturing	Total	Percent of Total Capital Expenditures
1966	270	129	10	409	
1967	44	31(E)	1(E)	76	
1968	49	43(E)	1(E)	93	
1969	74	52(E)	2(E)	128	
1970	120	65(E)	2(E)	187	
1971	134	66	2.5	203	
1972	205	129	5	339	38
1973	179	162	10	351	34
1974	216	296	11	523	31
1975	286	341	18	645	30
1976	319	216	29	564	29
1977	278	148	17	443	19
1978	182	149	32	363	16
1979	178	158	23	359	12
1980	140	190	38	368	9
1981	91	120	49	260	6
1982	81	214	23	318	9
1983	118	149	60	327	6
1984	62	130	34	226	6
1985	121	175	46	342	7
Through 1985	3,147	2,963	414	6,552	
Planned 1986	91	124	71	286	

SOURCE: National Council of the Paper Industry for Air and Stream Improvement
(E) - Estimate

TABLE XXVIIIB

PAPER AND ALLIED PRODUCTS EXPENDITURES ON RESEARCH AND DEVELOPMENT

1966-1986

(Million Dollars)

YEAR	Total Expenditures
1966	117
1967	128
1968	144
1969	188
1970	178
1971	187
1972	189
1973	194
1974	237
1975	249
1976	313
1977	333
1978	387
1979	445
1980	495
1981	566
1982	626
1983	674
1984	782
1985	744*
Planned 1986	702*

SOURCE: National Science Foundation
* McGraw Hill Economics Department Estimate

TABLE XXIX

WOOD SUPPLY AND DEMAND

	Total	New England States	Middle Atlantic States	Lake States	Central States	Southern States	Pacific Coast States	Rocky Mountain States
	Million Acres							
Commercial Forest Land in U.S. January 1, 1977	482.5	31.0	46.4	47.6	41.2	188.0	70.5	57.8
Ownership by Forest Industry Companies	68.8	9.7	3.2	4.2	0.8	36.2	12.5	2.1
% of Industry	14.3%	31.4%	6.9%	8.8%	2.0%	19.3%	17.8%	3.6%
	Million Cubic Feet							
All Species								
Total Growth	21,664	1,345	1,795	1,617	1,035	10,705	3,478	1,690
Removals	14,229	639	663	719	637	6,571	4,154	845
Mortality	3,925	226	322	529	142	1,121	1,087	498
Removals and Mortality as Percent of Growth	83.8%	64.4%	54.9%	77.2%	75.3%	71.9%	150.7%	79.5%
Softwoods								
Total Growth	12,285	838	229	463	69	6,158	2,938	1,589
Removals	10,046	396	103	181	25	4,471	4,028	842
Mortality	2,303	137	54	130	7	512	1,003	459
Removals and Mortality as Percent of Growth	100.5%	63.6%	68.6%	67.3%	46.7%	80.9%	171.2%	81.8%
Hardwoods								
Total Growth	9,380	506	1,566	1,154	965	4,547	541	100
Removals	4,183	244	560	538	612	2,100	126	3
Mortality	1,622	88	268	399	135	609	84	39
Removals and Mortality as Percent of Growth	61.9%	65.6%	52.9%	81.2%	77.4%	59.6%	38.8%	42.1%

New England States	Middle Atlantic States	Lake States	Central States	Southern States	Pacific Coast States	Rocky Mountain States
Connecticut	Delaware	Michigan	Illinois	North Carolina	Alaska	Idaho
Maine	Maryland	Minnesota	Indiana	South Carolina	Oregon	Montana
Massachusetts	New Jersey	North Dakota	Iowa	Virginia	Washington	South Dakota (West)
New Hampshire	New York	South Dakota (East)	Kansas	Florida	California	Wyoming
Rhode Island	Pennsylvania	Wisconsin	Kentucky	Georgia	Hawaii	Arizona
Vermont	West Virginia		Missouri	Alabama		Colorado
			Nebraska	Mississippi		Nevada
			Ohio	Tennessee		Mexico
				Arkansas		Utah
				Louisiana		
				Oklahoma		
				Texas		

SOURCE: An Analysis of the Timber Situation in the United States 1952-2030, U.S. Department of Agriculture, Forest Service, Forest Resource Report No. 23, December 1982. Commercial Forest Land and Ownership Table 3.4. Data refer to 1976 Growth, Removals and Mortality Table 3.45

SECTION IV

FINANCIAL DATA ON THE PAPER INDUSTRY

Table XXX shows information on the financial structure of the paper and allied products industry for the period 1950 through 1985. These data are drawn from quarterly reports published in the Bureau of Census' Quarterly Financial Reports for Manufacturing, Mining and Trade.

The annual data shown represent the summation of reportod quarterly totals. Annual totals have never been published in the original report.

Several of the years show duplicate numbers. At the end of each year, the agency compiling the report surveys the companies included in each category, and re-assigns those that have changed to other industries. It then recomputes the previous years' data, utilizing the current sample. The timing of this review in 1980 led to three separate estimates of the paper and allied products industry totals.

We have introduced two new columns: net profit before taxes as a percent of sales and retained cash flow (after-tax profits less dividends plus depreciation). The retained cash flow total reflects the amount of money available to paper companies from internal sources for various capital and similar expenditures projects. Although the slight decline in net sales recorded in 1985 led to a reduction in after-tax profits and a reduction of both the sales margin and the return on net worth, retained cash flow as defined here showed a slight increase over the 1984 level, bringing the total to a new high. This was equivalent to 6.9% of net sales, which was close to the ratio that held to the early 1980's, but somewhat below those that held in the last half of the 1970's. Actually, throughout the entire period shown in the table, the ratio of retained cash flow to net sales moved in a fairly narrow range.

The table also shows that the industry continued to expand its size in 1985, with total assets, total property plant and equipment and total capital all moving to new highs.

Table XXXI shows the producer price indexes for the paper and allied products industry as published by the Bureau of Labor Statistics.

The Bureau of Labor Statistics is in the process of completely revamping its producer's price index series, moving it to a coding system that matches the Standard Industrial Classification Codes of the Office of Management and Budget. The price indexes presented here do not include all the available information, however, because some of the new indexes are too recent to give any indication of trends. Many of the old price indexes are no longer published. In the paperboard sub-group, the price indexes shown in the table had different codes than those used earlier. The new price indexes are now reported only in terms of paperboard furnish, and only two are fully consistent with the earlier indexes.

Table XXXII presents data on the paper and allied products industry as published in the 1984 Survey of Manufactures.

The tables on this page outline the cost structure of the paper industry for all of the 17 industries that comprise the Paper and Allied Products Industry Group (SIC 26). Thus, they show total payroll costs, cost of materials and the value of shipments. In addition, data on capital expenditures and inventories are also shown.

The value of shipments data here are based on shipments of all products from each of the establishments that comprise the industries shown. This is somewhat different from the value of shipments of the paper and allied products presented on Table XV. In that table the values are shown for the total products on a "wherever-made basis".

The shipments from each establishment are included in the total even if the product goes to another mill or to another establishment in the same company. Thus, the value of industry shipments shown here double count to some extent and are not consistent with the sales totals of individual companies. However, the cost data shown for each industry are internally consistent.

TABLE XXX

PAPER AND ALLIED PRODUCTS INDUSTRY

PROFIT AND LOSS DATA, CASH INFLOW AND SELECTED BALANCE SHEET DATA

1950 - 1985

(Millions of Dollars)

YEAR	Net Sales	Net Profit Before Taxes	Net Profit Before Taxes To Net Sales (%)	Income Taxes	Net Profit After Taxes	Net Profit After Taxes To Net Sales (%)	Depreci-ation	Cash Inflow	Gross Cash Flow
1950	6,377	962	15.4	424	558	8.8	162	720	1,144
1951	8,022	1,417	17.7	858	559	6.9	183	742	1,600
1952	7,688	1,000	13.0	563	437	5.7	222	659	1,222
1953	8,371	1,005	12.0	554	450	5.4	242	692	1,246
1954	8,492	970	11.4	493	479	5.6	268	718	1,211
1955	9,847	1,206	12.2	601	604	6.1	310	914	1,515
1956	10,686	1,283	12.0	626	657	6.1	360	1,017	1,643
1957	10,420	1,020	9.8	497	521	5.0	376	897	1,394
1958 1/	10,256	899	8.8	440	460	4.5	406	866	1,306
1958 2/	10,658	987	9.3	481	506	4.7	423	929	1,410
1959	11,824	1,204	10.2	585	619	5.2	459	1,078	1,663
1960	11,764	1,135	9.6	546	587	5.0	480	1,069	1,613
1961	12,525	1.120	8.9	535	583	4.7	531	1,114	1,649
1962	13,698	1,212	8.8	584	628	4.6	583	1,211	1,795
1963	14,050	1,215	8.6	581	634	4.5	615	1,249	1,830
1964	14,771	1,312	8.9	557	754	5.1	641	1,395	1,952
1965 1/	16,224	1,488	9.2	619	869	5.4	671	1,539	2,159
1965 2/	15,217	1,271	8.4	517	753	4.9	632	1,385	1,902
1966	17,016	1,544	9.1	633	911	5.4	676	1,587	2,220
1967 2/	16,900	1,316	7.8	523	796	4.7	723	1,519	2,039
1968	18,738	1,534	8.2	645	889	4.7	780	1,669	2,314
1969	20,607	1,675	8.1	688	987	4.8	821	1,808	2,496
1970	21,069	1,211	5.7	492	719	3.4	869	1,588	2,080
1971 1/	22,224	967	4.4	455	512	2.3	926	1,438	1,893
1971 2/	- - -	- - -	- - -	- - -	- - -	-N.A.-	- - -	- - -	- - -
1972	23,324	1,584	6.8	643	941	4.0	959	1,900	2,543
1973 1/	26,503	2,481	9.4	1,040	1,441	5.4	1,012	2,453	3,493
1973 2/	- - -	- - -	- - -	- - -	- - -	-N.A.-	- - -	- - -	- - -
1974 1/	30,799	3,692	12.0	1,511	2,183	7.1	1,032	3,215	4,724
1974 2/	32,837	3,792	11.5	1,502	2,287	7.0	1,063	3,350	4,855
1975	32,044	2,901	5.7	1,099	1,801	5.6	1,219	3,019	4,120
1976	39,270	3,643	9.3	1,374	2,270	5.8	1,382	3,652	5,025
1977 1/	41,926	3,442	8.2	1,207	2,234	5.3	1,548	3,782	4,989
1977 2/	45,750	3,632	7.9	1,266	2,367	5.2	1,663	4,030	5,296
1978 1/	49,683	4,097	8.2	1,447	2,648	5.3	1,767	4,415	5,864
1978 2/	48,982	4,036	8.2	1,436	2,598	5.3	1,726	4,324	5,762
1979	55,359	5,406	9.8	1,683	3,723	6.7	1,896	5,619	7,302
1980 1/	59,333	4,318	7.3	1,275	3,042	5.1	2,075	5,119	6,392
1980 2/	54,737	4,014	7.3	1,233	2,781	5.1	1,990	4,771	6,004
1980 3/	56,250E	4,045E	7.2	1,245E	2,800E	5.0E	2,026E	4,826E	6,071E
1981 1/	62,502	4,728	7.6	1,621	3,108	5.0	2,253	5,361	6,981
1981 2/	62,699	4,728	7.5	1,617	3,110	5.0	2,267	5,377	6,995
1982	60,293	2,120	3.5	660	1,460	2.4	2,379	3,839	4,499
1983 1/	66,100	3,439	5.2	1,102	2,337	3.5	2,645	4,982	6,084
1983 2/	65,008	3,424	5.3	1,096	2,327	3.6	2,607	4,934	6,031
1984	71,891	4,812	6.7	1,798	3,015	4.2	2,798	5,813R	7,611
1985 1/	71,761	4,424	6.2	1,533	2,891	4.0	3,107	5,998	7,531
1985 2/	71,465	4,399	6.2	1,519	2,880	4.0	3,099	5,979	7,498

SOURCE: Yearly data calculated by API from Quarterly Financial Report for Manufacturing, Mining and Trade Corporations. 1950-1971 Third Quarter, Federal Trade Commission - Securities and Exchange Commission. 1971 Fourth Quarter - 1982 Third Quarter, Federal Trade Commission. 1982 Fourth Quarter to date, Bureau of the Census.

1/ Data as from Source consistent with earlier reports.
2/ Revised series - change in corporations included in industry.
3/ Series revised by FTC based on change in their adjustment factors.
N.A. Not Available
E - Estimates by API with assistance from FTC.
R - Revised

Cash Inflow = Net Profit after Taxes + Depreciation
Gross Cash Flow = Net Profit before Taxes + Depreciation
Total Capital = Net Worth + Long Term Debt

TABLE XXX (Cont.)

PAPER AND ALLIED PRODUCTS INDUSTRY

PROFIT AND LOSS DATA, CASH INFLOW AND SELECTED BALANCE SHEET DATA

1950 - 1985

(Millions of Dollars)

YEAR	Cash Dividends	Retained Earnings	Net Cash Flow	Total Assets	Property Plant & Equipment Gross	Property Plant & Equipment Net	Net Worth	Long Term Debt	Total Capital	Net Profit After Taxes To Net Worth (%)
1950	178	380	542	5,055	N.A.	2,285	3,585	490	4,075	15.6
1951	200	359	542	6,005	N.A.	2,600	3,963	625	4,588	14.1
1952	196	241	463	6,301	4,643	2,777	4,298	784	5,082	10.1
1953	203	247	489	6,825	5,349	3,273	4,559	803	5,362	9.9
1954	227	252	520	7,085	5,694	3,367	4,963	908	5,871	9.7
1955	259	345	655	7,785	6,171	3,623	5,403	1,010	6,413	11.2
1956	273	384	744	8,492	7,028	4,213	5,772	1,286	7,058	11.4
1957	270	251	627	8,407	7,502	4,509	5,809	1,309	7,118	8.9
1958 1/	265	195	601	8,829	7,941	4,652	6,089	1,472	7,561	7.6
1958 2/	286	220	643	9,170	8,200	4,818	6,341	1,500	7,841	8.0
1959	290	329	788	9,721	8,740	5,062	6,642	1,512	8,154	9.3
1960	312	275	755	10,087	9,432	5,385	6,956	1,622	8,578	8.4
1961	328	255	786	11,051	10,447	5,857	7,612	1,719	9,331	7.6
1962	340	288	871	11,670	11,058	6,062	7,766	1,953	9,719	8.1
1963	348	286	901	11,859	11,420	6,079	7,886	1,964	9,850	8.0
1964	376	378	1,019	12,560	12,380	6,585	8,304	1,967	10,271	9.1
1965 1/	409	461	1,132	13,850	13,378	7,321	8,672	2,439	11,111	10.0
1965 2/	350	403	1,035	13,017	13,047	7,053	8,165	2,447	10,612	9.2
1966	372	539	1,215	14,621	14,662	8,131	8,710	3,104	11,814	10.5
1967 2/	391	405	1,128	15,645	15,403	8,579	9,011	3,736	12,747	8.8
1968	396	493	1,273	16,809	16,059	8,964	9,303	4,199	13,502	9.6
1969	418	569	1,390	18,794	17,169	9,529	10,212	4,267	14,479	9.7
1970	430	289	1,158	19,679	18,160	9,969	10,305	4,822	15,127	7.0
1971 1/	418	94	1,020	20,424	19,001	10,194	10,652	5,239	15,891	4.8
1971 2/	N.A.	N.A.	N.A.	19,582	18,558	9,987	10,326	5,137	15,463	N.A.
1972	377	564	1,523	19,810	18,816	9,903	10,615	4,973	15,588	8.9
1973 1/	416	1,025	2,037	21,377	19,998	10,616	11,536	5,073	15,609	12.5
1973 2/	N.A.	N.A.	N.A.	20,506	18,740	9,888	11,166	4,935	16,101	N.A.
1974 1/	519	1,668	2,700	23,696	19,093	11,524	12,958	5,346	18,304	16.8
1974 2/	530	1,754	2,817	26,088	21,856	12,012	13,602	6,457	20,059	16.8
1975	632	1,158	2,377	28,220	24,265	13,773	14,878	7,193	22,071	12.1
1976	660	1,601	2,983	32,010	27,284	15,659	17,203	7,625	24,828	13.2
1977 1/	725	1,502	3,050	34,450	29,545	17,131	18,321	8,551	26,872	12,2
1977 2/	793	1,566	3,229	37,047	31,866	18,590	19,704	9,254	28,958	12.0
1978 1/	877	1,771	3,538	40,810	34,420	20,226	21,181	10,082	31,263	12.5
1978 2/	859	1,739	3,465	40,118	33,563	19,644	20,794	9,900	30,694	12.5
1979	975	2,746	4,642	45,304	37,069	22,349	23,206	11,028	34,234	16.0
1980 1/	1,089	1,957	4,032	50,040	41,403	25,739	25,889	11,850	37,739	11.8
1980 2/	1,050	1,731	3,721	44,866	39,534	24,391	23,873	10,365	34,238	11.6
1980 3/	1,057E	1,743E	3,769	45,894	40,361	24,800	24,396	10,585	34,981	11.5
1981 1/	1,161	1,947	4,200	50,706	44,942	27,747	26,452	11,633	38,085	11.7
1981 2/	1,126	1,984	4,251	50,912	45,122	27,881	26,558	11,705	38,263	11.7
1982	1,104	355	2,735	52,915	48,235	29,711	26,705	13,149	39,854	5.5
1983 1/	1,139	1,197	3,842	56,126	51,692	32,208	27,509	13,946	41,455	8.5
1983 2/	1,137	1,191	3,798	54,821	50,957	31,826	27,219	13,565	40,784	8.5
1984	1,217	1,798	4,596	58,520	53,882	34,563	28,160	13,802	41,962	10.7
1985 1/	1,242	1,649	4,756	62,613	60,485	38,881	29,780	15,262	45,042	9.7
1985 2/	1,240	1,640	4,739	62,505	60,341	38,835	29,694	15,262	44,956	9.7

See Page 62 for footnotes
Net Cash Flow=Retained Earnings plus Depreciation

TABLE XXXI

WHOLESALE AND PRODUCERS PRICE INDEXES FOR SELECTED SUBGROUPS AND CLASSES OF WOOD PULP, PAPER, PAPERBOARD AND CONVERTED PRODUCTS

1969 - 1985

(Index 1967 = 100)

	1969	1970	1971	1972	1973	1974	1975	1976	1977
PULP, PAPER & ALLIED PRODUCTS	**104.0**	**108.2**	**110.1**	**113.4**	**122.1**	**151.7**	**170.4**	**179.4**	**186.4**
PULP, PAPER & PRODUCTS, exc. Building Paper & Board	**104.1**	**108.5**	**110.4**	**113.7**	**122.5**	**152.8**	**171.9**	**180.8**	**187.3**
Wood Pulp Sub-Group	**100.0**	**109.6**	**112.1**	**111.5**	**128.3**	**217.8**	**283.4**	**286.0**	**281.1**
Paper Making Wood Pulp	(Index Dec. 1973 = 100)			--	--	148.1	193.4	192.5	186.8
Sulphate, Bleached	100.0	109.5	111.6	110.5	128.3	220.0	281.2	282.8	277.0
Sulphite, Bleached	100.0	109.9	113.2	113.2	129.5	227.0	298.7	291.0	278.1
Bleached Sulphate Hardwood Pulp	(Index Dec. 1973 = 100)			--	--	147.2	186.4	181.1	174.0
Dissolving Wood Pulp	(Index Dec. 1973 = 100)			--	--	139.8	180.2	189.9	193.8
Waste Paper Sub-Group	**138.7**	**125.0**	**112.1**	**133.6**	**197.4**	**265.5**	**110.2**	**184.9**	**187.2**
No. 1 News	122.9	108.1	103.1	119.2	137.2	201.6	111.8	199.5	209.6
No. 1 Mixed	168.2	130.3	122.8	155.2	230.8	330.8	103.6	156.3	174.4
Old Corrugated Boxes	140.4	135.5	111.5	131.6	223.3	251.4	89.7	195.7	186.4
Semichemical Kraft Clippings	149.1	145.7	127.2	153.8	223.7	288.8	134.4	209.6	210.4
Mixed Kraft Clippings	157.6	153.6	130.9	163.2	247.1	323.2	138.3	231.0	232.2
White News Blanks	89.9	84.3	82.5	85.8	124.4	212.0	111.7	185.9	186.7
Paper Sub-Group	**105.5**	**111.0**	**114.2**	**116.3**	**121.4**	**148.6**	**172.9**	**182.3**	**194.3**
Paper, except Newsprint	105.8	112.0	114.8	116.1	121.0	147.7	169.3	177.1	187.2
Book Paper, Uncoated Offset	106.2	112.0	116.3	118.5	120.9	153.7	158.0	164.7	173.8
Wood Bond, Unwatermarked	108.8	115.6	120.1	121.9	124.8	139.5	148.5	151.1	156.6
Form Bond, 15 lb.	(Index Dec.1975 = 100)			--	--	--	--	102.4	103.9
25% Cotton Fiber	106.6	112.1	115.4	116.7	122.2	147.8	162.8	170.2	180.1
Coated Printing Paper #3	(Index Dec.1973 = 100)			--	--	110.1	118.4	128.5	139.1
Coated Printing Paper #5	(Index Dec.1973 = 100)			--	--	119.6	136.3	144.9	162.3
Watermarked Bond #1	(Index Dec.1973 = 100)			--	--	108.3	114.6	116.2	119.9
Form Bond, 12 lbs.	(Index Dec.1973 = 100)			--	--	128.7	144.7	149.0	154.2
Uncoated Index Bristols	(Index Dec.1973 = 100)			--	--	119.2	133.5	137.8	144.1
Wrapping Paper	104.5	117.6	117.9	119.8	127.4	158.6	200.8	208.4	213.3
Newsprint Class	104.4	107.6	112.2	116.7	122.2	151.2	184.0	198.2	215.5
Shipping Sack, Unbleached Kraft	(Index Dec.1973 = 100)			--	--	117.6	143.0	145.3	155.4
Standard Converting, Unbleached Kraft	(Index Dec.1973 = 100)			--	--	116.1	140.7	141.5	145.4
Grocery Sack, Unbleached Kraft	(Index Dec.1973 = 100)			--	--	118.3	150.7	152.0	151.2
Paperboard Sub-Group	**99.4**	**101.1**	**102.4**	**105.5**	**115.1**	**152.2**	**170.3**	**176.0**	**176.2**
Containerboard Class	97.2	99.0	100.3	103.9	113.4	146.2	171.5	176.1	172.0
Linerboard, 42 lb. Kraft	97.5	99.2	100.3	103.4	111.4	143.8	171.0	174.4	170.6
Corrugating Medium, Semichemical	96.3	98.9	100.2	105.1	118.3	152.2	172.5	181.5	177.3
Folding Boxboard Class	102.5	103.2	104.6	106.5	115.7	158.2	162.8	167.4	174.8
White Clay Coated, 80 Bright	(Index Dec.1974 = 100)			--	--	--	100.0	103.7	108.8
Set-Up Boxboard Class	107.0	110.7	113.7	119.0	131.4	185.4	192.9	195.1	204.1
Chipboard	109.6	114.1	117.5	123.3	135.0	187.3	191.7	193.9	202.8
Bleached Board Folding Carton	(Index Dec.1974 = 100)			--	--	--	102.0	109.9	117.4
Uncoated Cup Stock	(Index Dec.1974 = 100)			--	--	--	102.8	111.1	118.7
Tube, Can and Drum Stock	(Index Dec.1974 = 100)			--	--	--	100.2	103.0	104.1
Converted Products Sub-Group	**103.6**	**107.9**	**109.7**	**113.6**	**121.6**	**144.9**	**161.8**	**170.0**	**176.6**
Sanitary Paper, etc.	109.1	115.1	119.6	121.0	124.8	155.7	194.7	214.4	236.7
Paper Bags, Shipping Sacks	98.4	106.9	100.1	107.6	119.4	138.6	155.7	163.5	171.5
Boxes, Shipping Containers	104.4	108.1	111.5	115.9	124.5	146.0	158.0	164.7	167.6
Gummed Sealing Tape	102.0	102.1	100.4	102.9	111.8	138.8	161.6	168.3	175.8
Office Supplies	98.7	101.4	101.9	103.2	109.9	136.1	148.5	149.4	151.4
Composite Cans	104.6	108.3	112.3	115.9	122.3	143.6	167.3	179.0	194.3
Building Paper and Board Sub-Group	**105.5**	**101.0**	**102.8**	**106.4**	**112.8**	**123.5**	**127.1**	**138.8**	**157.0**
All Commodities	**106.5**	**110.4**	**114.0**	**119.1**	**134.7**	**160.1**	**174.9**	**183.0**	**194.2**
Industrial Commodities	**106.0**	**110.0**	**114.1**	**117.9**	**125.9**	**153.8**	**171.5**	**182.4**	**195.1**

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, Washington, D.C.

NOTE: Annual figures are averages of monthly data.

TABLE XXXI (Cont.)

WHOLESALE AND PRODUCERS PRICE INDEXES FOR SELECTED SUBGROUPS AND CLASSES OF WOOD PULP, PAPER, PAPERBOARD AND CONVERTED PRODUCTS

1969 - 1985

(Index 1967 = 100)

	1981 BLS Price Codes	1978	1979	1980	1981	1982	1983	1984	1985
PULP, PAPER & ALLIED PRODUCTS	09	195.6	219.0	249.2	273.8	288.7	298.1	318.5	327.2
PULP, PAPER & PRODUCTS, exc. Building Paper & Board	091	195.6	220.2	250.6	270.8	273.2	271.4	293.3	292.0
Wood Pulp Sub-Group	0911	266.5	314.3	380.3	397.1	379.0	346.9	397.6	346.6
Paper Making Wood Pulp	091102	174.5	215.1	263.5	272.6	254.3	228.3	269.7	224.2
Sulphate, Bleached	09110211	257.1	308.4	378.6	395.7	375.0	332.5	416.2	336.8
Sulphite, Bleached	09110221	268.6	336.3	420.6	431.4	405.6	331.9	N.A.	N.A.
Bleached Sulphate Hardwood Pulp	09110212	162.9	197.5	240.2	241.9	208.6	214.5E	230.4	192.7
Dissolving Wood Pulp	091103	191.5	197.9	229.9	247.8	254.2	244.2	247.8	246.0
Waste Paper Sub-Group	0912	191.2	206.6	208.7	175.7	122.8##	201.2##	240.1	148.8
No. 1 News	09120102	200.5	151.8	167.4	95.7	72.1#	N.A.	193.1	150.0
No. 1 Mixed	09120205	224.0	204.3	221.7	189.8	142.7#	N.A.	244.7	208.2
Old Corrugated Boxes	09120311	202.0	278.4	192.0	136.9	94.6#	N.A.	300.3	146.4
Semichemical Kraft Clippings	09120415	224.2	335.4	325.7	277.7	184.1#	N.A.	317.4	208.8
Mixed Kraft Clippings	09120521	248.7	384.4	371.4	313.5	221.4#	N.A.	N.A.	N.A.
White News Blanks	09120625	178.5	186.3	217.2	206.8	144.2#	N.A.	225.4	130.0
Paper Sub-Group	0913	206.1	229.6	256.8	279.8	286.3	282.0	302.9	303.4
Paper, except Newsprint	091301	199.4	222.8	249.3	271.1*	278.3*	276.9*	301.1*	298.8*
Printing Paper, Ctd. 2 Sides, Other Grades	09130116	(Index June 1981=100)		--	--	104.2	105.3	117.0	122.9
Printing Paper, Ctd. 1 Side	09130117	(Index June 1981=100)		--	--	109.8	111.5	118.8	121.1
Book Paper, Uncoated Offset	09130122	188.3	214.1	238.9	266.3	247.3	270.6	289.8	275.7
Wood Bond, Unwatermarked	09130131	164.7	182.1	203.5	220.2	224.7	225.3	233.3	229.0
Form Bond, 15 lb.	09130134	110.9	126.1	142.3	154.7	151.5	148.0	163.6	142.4
25% Cotton Fiber	09130141	187.3	203.7	230.0	248.1	261.2	265.7	293.6	297.4
Thin Paper	09130142	(Index June 1981=100)		--	--	107.2	107.7	113.3	116.1
Cover & Text	09130148	(Index June 1981=100)		--	--	105.8	108.1	117.4	118.6
Uncoated Body Stock	09130149	(Index June 1981=100)		--	--	97.8	95.5	105.4	102.8
Coated Printing Paper #3	09130113	153.9	167.2	178.6	193.0	202.9	206.4	224.3	234.5
Coated Printing Paper #5	09130115	179.5	194.5	217.7	235.3	238.9	231.0	267.8	292.5
Watermarked Bond #1	09130132	125.3	137.4	150.4	N.A.	N.A.	N.A.	N.A.	N.A.
Form Bond, 12 lbs.	09130133	165.3	187.8	209.7	226.3	217.7E	202.6E	N.A.	N.A.
Uncoated Index Bristol	09130147	149.7	166.6	191.3	N.A.	N.A.	N.A.	N.A.	N.A.
Newsprint Class	09130291	226.3	250.2	279.3	308.0	315.8	303.0	323.1	332.5
Packaging and Industrial Converting	091303	(Index June 1981=100)		--	--	98.6	98.1	103.9	102.8
Wrapping Paper	09130302	225.6	243.6	264.3	N.A.	313.2E	315.8	331.7	333.9
Shipping Sack, Unbleached Kraft	09130304	161.5	178.3	199.6	220.4	214.8	226.8	240.8	219.3
Standard Converting, Unbleached Kraft	09130311,2	151.5	167.0	191.3	N.A.	N.A.	N.A.	N.A.	N.A.
Other Converting, 18 lb & Over, Unbleached Kraft	09130311	(Index June 1981=100)		--	--	99.8	97.7	105.0	102.4
Other Converting, 18 lb. & Over, Exc. Unbleached Kraft	09130312	(Index June 1981=100)		--	--	100.8	99.8	104.2	104.0
Grocery Sack, Unbleached Kraft	09130307	158.2	179.6	210.6	223.9	208.3	206.1	227.2	218.3
Special Industrial Paper	091304	(Index June 1981=100)		--	--	104.2	102.9	110.3	108.1
Paperboard Sub-Group	0914	179.6	202.1	234.6	258.1	254.9	250.9	281.5	274.0
Containerboard Class	091401	172.7	197.8	231.1	252.5	246.1	N.A.	N.A.	N.A.
Linerboard, 42 lb. Kraft	09140101	171.5	196.4	231.0	251.8	247.0	105.0RS	122.4	116.5
Corrugating Medium, Semichem.	09140111	179.1	203.8	233.2	254.9	245.2	103.8RS	121.3	112.7
Folding Boxboard Class	091402	185.2	199.4	229.2	249.5	250.2	N.A.	N.A.	N.A.
White Clay Coated, 80 Bright	09140225	117.6	124.8	141.6	154.4	149.7	N.A.	N.A.	N.A.
Set-Up Boxboard Class	091403	214.9	234.5	274.6	294.0	300.4	N.A.	N.A.	N.A.
Chipboard	09140332	213.5	233.1	272.9	292.2	298.5	101.7RS	109.2	108.5
Bleached Board Fldg. Carton	09140441	124.0	134.4	152.6	176.1	177.7	100.8RS	107.7	108.1
Uncoated Cup Stock	09140442	122.8	135.5	156.4	178.8	184.8	N.A.	N.A.	N.A.
Tube, Can and Drum Stock	09140448	105.6	117.0	133.4	143.4	145.3	N.A.	N.A.	N.A.
Converted Products Sub-Group	0915	186.5	209.9	238.5	258.8	264.4	265.3	281.2	288.0
Sanitary Paper, etc.	091501	253.8	279.9	325.0	347.3	353.7	361.0	365.6	377.1
Paper Bags, Shipping Sacks	091502	190.9	220.4	246.4	N.A.	263.3	260.6	290.9	294.7
Boxes, Shipping Containers	091503	174.6	197.6	223.2	243.9	249.6	248.4	264.0	271.7
Gummed Sealing Tape	09150431	187.6	205.5	246.7	260.9	267.7	263.1	272.8	277.4
Office Supplies	091506	156.7	178.6	198.7	214.6	224.6	227.4	241.4	238.7
Composite Cans	091507	209.6	226.4	253.3	272.8	298.4	317.7	330.3	342.5
Building Paper and Board Sub-Group	092	187.4	182.4	206.2	231.7	239.5	250.0	259.0	257.2
Publications, Pr. Matter & Prtg.	093	(Index Dec. 1980 = 100)			108.2	118.4	125.9	133.5	140.5
All Commodities		209.3	235.6	268.8	293.4	299.3	303.1	310.3	308.8
Industrial Commodities		209.4	236.5	274.8	304.1	312.3	315.7	322.6	323.9

* Also excludes packaging paper E - Estimate N.A. - Not Available # - January-September average

RS - Revised Series, December 1982 = 100. Definitions not fully consistent with earlier ones. ## - July-December average

TABLE XXXII

GENERAL STATISTICS FOR THE PAPER AND ALLIED PRODUCTS INDUSTRY

1984

CODE	INDUSTRY GROUP & INDUSTRY	All Employees		Production Workers			Value Added by Manufacture	Cost of Materials	Value of Industry Shipments	Capital Expenditures	End-of-Year Inventories
		Number (000)	Payroll ($ Mil.)	Number (000)	Man-Hours (Mil.)	Wages ($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)
26	**PAPER AND ALLIED PRODUCTS**	612.9	14,883.9	468.1	961.5	10,515.8	40,884.7	54,504.1	94,814.0	5,301.6	10,080.1
2611	**Pulp Mills**	16.8	549.0	12.9	26.5	411.8	1,599.4	2,267.3	3,841.1	600.4	479.2
2621	**Paper Mills, exc. Bldg. Paper**	129.5	4,021.8	100.6	214.7	3,032.9	11,165.7	14,162.5	25,195.0	2,412.4	2,447.5
2631	**Paperboard Mills**	55.7	1,677.8	42.5	90.0	1,272.2	5,238.5	6,708.7	11,880.6	680.2	848.3
264	**Misc.Converted Paper Products**	217.0	4,514.9	165.0	330.9	3,051.7	14,063.8	16,966.4	30,794.2	906.0	3,540.5
2641	Paper Coating and Glazing	42.0	973.8	28.5	59.6	564.2	2,745.9	3,629.7	6,300.5	196.5	845.2
2642	Envelopes	25.1	504.4	19.7	40.5	342.4	1,016.5	1,166.1	2,169.3	63.5	254.4
2643	Bags, except Textile Bags	49.1	931.4	38.9	78.0	652.8	2,332.8	3,402.0	5,697.8	174.2	757.7
2645	Die-Cut Paper and Board	17.5	300.4	14.1	27.1	198.6	838.0	1,119.0	1,931.3	46.7	226.5
2646	Pressed and Molded Pulp Goods	3.0	68.1	2.5	5.0	53.4	128.2	111.8	235.6	7.4	33.9
2647	Sanitary Paper Products	38.1	1,003.4	30.0	60.4	754.0	4,992.9	5,351.6	10,326.8	312.8	674.4
2648	Stationery Products	13.6	232.7	10.3	20.1	154.3	486.3	701.5	1,172.8	42.2	234.7
2649	Converted Paper Products, NEC	28.6	500.6	21.0	40.2	312.1	1,523.3	1,484.8	2,960.1	62.7	513.6
265	**Paperboard Containers and Boxes**	190.1	4,032.9	144.0	293.1	2,678.0	8,622.4	14,123.6	22,635.1	681.4	2,717.3
2651	Folding Paperboard Boxes	45.2	984.5	35.6	73.4	693.3	1,969.5	2,498.9	4,421.4	131.4	718.1
2652	Set-Up Paperboard Boxes	9.3	131.6	7.7	15.7	88.7	268.3	199.5	466.1	18.0	67.8
2653	Corrugated, Solid Fiber Boxes	98.9	2,185.3	71.5	145.2	1,371.9	4,461.3	8,896.6	13,110.6	426.2	1,325.3
2654	Sanitary Food Containers	22.8	451.4	17.8	36.2	316.6	1,291.9	1,663.5	2,944.9	64.6	438.4
2655	Fiber Cans,Drums,Similar Prod.	13.9	280.1	11.4	22.7	207.4	631.3	1,065.1	1,692.2	41.1	169.7
2661	**Building Paper and Board Mills**	3.7	88.0	3.1	6.3	69.2	194.8	275.7	468.0	21.1	47.3

1983

CODE	INDUSTRY GROUP & INDUSTRY	All Employees		Production Workers			Value Added by Manufacture	Cost of Materials	Value of Industry Shipments	Capital Expenditures	End-of-Year Inventories
		Number (000)	Payroll ($ Mil.)	Number (000)	Man-Hours (Mil.)	Wages ($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)
26	**PAPER AND ALLIED PRODUCTS**	606.2	13,827.4	460.8	936.6	9,736.7	35,611.6	49,076.3	84,587.0	4,987.3	9,212.9
2611	**Pulp Mills**	16.9	508.7	12.9	25.9	376.8	1,239.4	2,003.8	3,261.4	915.7	422.7
2621	**Paper Mills, exc. Bldg. Paper**	128.6	3,703.5	100.0	210.5	2,790.1	9,701.6	12,552.1	22,284.0	2,239.3	2,236.0
2631	**Paperboard Mills**	53.6	1,558.7	41.4	87.0	1,174.8	3,985.7	6,098.4	10,099.9	527.3	738.6
264	**Misc.Converted Paper Products**	213.9	4,180.0	161.5	321.0	2,828.2	12,556.2	15,544.0	27,970.6	819.9	3,318.9
2641	Paper Coating and Glazing	41.0	906.8	27.4	57.4	546.8	2,439.0	3,298.8	5,703.2	176.9	755.9
2642	Envelopes	24.8	464.7	19.3	38.6	305.4	907.0	999.5	1,888.1	32.6	239.3
2643	Bags, except Textile Bags	50.3	903.4	39.9	80.4	635.4	2,151.1	3,166.0	5,292.8	150.4	801.4
2645	Die-Cut Paper and Board	16.3	271.3	13.1	24.7	185.9	813.3	1,088.3	1,897.8	30.4	207.3
2646	Pressed and Molded Pulp Goods	2.7	60.3	2.2	4.5	46.6	122.0	88.2	211.9	4.9	21.1
2647	Sanitary Paper Products	36.7	900.4	28.4	56.9	673.0	4,332.7	4,925.5	9,239.7	372.6	646.1
2648	Stationery Products	13.1	209.9	9.9	18.4	140.1	481.2	665.0	1,132.2	20.8	199.0
2649	Converted Paper Products, NEC	29.0	463.2	21.3	40.1	295.0	1,309.9	1,312.7	2,604.9	31.3	448.6
265	**Paperboard Containers and Boxes**	189.4	3,794.9	141.9	285.9	2,502.3	7,946.3	12,636.4	20,546.8	470.0	2,454.1
2651	Folding Paperboard Boxes	42.6	874.3	33.7	68.3	614.8	1,716.1	2,281.0	3,966.7	94.3	654.7
2652	Set-Up Paperboard Boxes	12.3	162.6	10.5	20.1	114.3	323.1	244.9	568.6	14.1	70.0
2653	Corrugated, Solid Fiber Boxes	96.9	2,038.1	68.9	139.7	1,264.1	3,974.8	7,450.5	11,410.7	248.1	1,135.2
2654	Sanitary Food Containers	23.6	444.0	17.5	35.3	305.4	1,304.1	1,664.2	2,973.3	78.5	437.5
2655	Fiber Cans,Drums,Similar Prod.	14.1	275.8	11.4	22.5	203.6	628.2	995.8	1,627.5	35.0	156.6
2661	**Building Paper and Board Mills**	3.8	81.6	3.1	6.3	64.5	182.4	241.6	424.3	15.1	42.8

SOURCE: 1984 Survey of Manufactures, Bureau of Census, Department of Commerce

SECTION V

SUPPLEMENT

Tables XXXII and XXXIII present data on production, imports, exports and new supply of wet machine board and total construction paper and board, for the years 1947 through 1985. The production data for 1982-1985 are API estimates; all the other data are drawn from Bureau of the Census reports.

These data are included in the production and new supply totals shown in Tables I and X. API does not collect data on these grades.

Table XXXIV presents the data on imports used in computing the new supply total presented in Table X that were taken from sources other than Bureau of the Census. The Printing-Writing Paper Division of the API has expanded its estimates of imports and exports to include thin papers, bleached bristols and cotton fiber papers. The import and export data that they compiled for the period 1978 through 1985 are presented in these tables. In some instances, these data are the same as the Census data. The bleached bristol figures for imports include coated bleached bristols, which are included as products in the Census data of Table XIII.

Table XXXV presents similar data on exports. The Census data are presented in Table XIV.

This section also includes the index to this report.

TABLE XXXIII

WET MACHINE BOARD PRODUCTION, IMPORTS, EXPORTS AND CONSUMPTION

CENSUS DATA

1947 - 1985

(In Tons of 2,000 Pounds)

YEAR	Production	Imports	Exports	New Supply
1947	149,800	-	-	150,000
1948	142,134	-	-	142,000
1949	129,761	1,240	2,615	128,386
1950	164,611	2,136	3,266	163,481
1951	150,559	3,144	3,876	149,827
1952	140,175	2,242	3,318	139,099
1953	156,496	2,872	3,698	155,670
1954	135,910	3,349	3,420	135,839
1955	178,687	4,211	3,727	179,171
1956	146,589	3,492	3,998	146,083
1957	137,998	3,289	4,188	137,099
1958	121,103	4,566	3,884	121,785
1959	144,807	5,214	3,566	146,455
1960	174,992	4,517	2,791	176,718
1961	155,205	3,668	3,516	155,357
1962	145,625	4,905	5,312	145,218
1963	140,669	2,925	4,412	139,182
1964	147,880	10,403	4,884	153,399
1965	143,872	10,306	4,139	150,039
1966	148,098	5,537	4,811	148,824
1967	143,984	8,636	5,218	147,402
1968	154,794	11,146	4,318	161,622
1969	147,671	9,073	3,842	152,902
1970	139,055	9,308	4,614	143,749
1971	137,825	6,198	4,383	139,640
1972	147,914	4,204	5,642	146,476
1973	148,892	6,883	7,495	148,280
1974	143,862	5,899	11,287	138,474
1975	115,169	3,814	6,136	112,847
1976	129,955	6,988	6,617	130,326
1977	128,627	3,608	8,051	124,184
1978	136,337	2,614	7,554	131,397
1979	144,059	2,345	7,371	139,033
1980	137,649	2,118	8,017	131,750
1981	160,293	1,684	10,812	151,165
1982	129,000E	1,842	11,089	120,000E
1983	140,000E	3,584	11,624	132,000E
1984	140,000E	2,826	13,872	129,000E
1985	140,000E	3,270	13,380	130,000E

SOURCE: Production - Department of Commerce, Bureau of the Census, Industry Division.
Current Industrial Reports: Pulp, Paper and Board, Annual Issues
Imports and Exports: Foreign Trade Division, Department of Commerce
E - Estimated

TABLE XXXIV

CONSTRUCTION PAPER AND BOARD PRODUCTION, IMPORTS, EXPORTS AND CONSUMPTION

CENSUS DATA

1947 - 1985

(In Tons of 2,000 Pounds)

YEAR	Production	Imports	Exports	New Supply
1947	2,047,763	32,923	35,406	2,045,280
1948	2,227,217	30,695	23,277	2,234,635
1949	1,773,573	22,541	28,090	1,768,024
1950	2,263,617	30,677	24,019	2,270,275
1951	2,303,538	29,057	30,223	2,302,372
1952	2,197,763	27,545	24,343	2,200,965
1953	2,322,275	26,177	25,871	2,322,581
1954	2,436,002	21,228	28,355	2,428,875
1955	2,698,344	28,944	30,580	2,696,708
1956	2,530,407	29,429	33,650	2,526,186
1957	2,317,701	19,040	31,800	2,304,941
1958	2,446,375	23,073	25,613	2,443,825
1959	2,605,831	27,698	28,250	2,606,279
1960	2,507,763	18,090	28,137	2,497,716
1961	2,474,304	11,168	31,430	2,454,042
1962	2,508,987	16,076	27,187	2,497,876
1963	2,591,63[illegible]	28,851	26,304	2,594,186
1964	2,747,582	44,359	28,539	2,763,402
1965	2,822,203	29,471	29,463	2,822,211
1966	2,649,808	25,945	33,720	2,642,033
1967	2,679,098	26,591	26,539	2,679,150
1968	2,906,986	38,856	33,957	2,911,885
1969	2,955,112	39,362	42,837	2,951,637
1970	2,812,345	48,875	32,843	2,828,377
1971	3,282,908	81,262	37,673	3,326,497
1972	3,444,014	104,385	44,335	3,504,064
1973	3,404,880	105,558	54,385	3,456,053
1974	3,140,084	88,701	66,242	3,162,543
1975	2,864,353	84,363	59,575	2,889,141
1976	3,205,761	93,155	62,206	3,238,710
1977	3,255,141	135,274	50,270	3,340,145
1978	3,339,792	329,594	63,850	3,605,536
1979	3,130,601	382,883	54,642	3,458,842
1980	2,420,112	473,679	57,662	2,836,129
1981	1,989,203	396,496	68,832	2,316,867
1982	1,533,000E	419,515	47,833	1,905,000E
1983	1,660,000E	473,667	55,746	2,078,000E
1984	1,660,000E	496,830	63,890	2,093,000E
1985	1,660,000E	413,196	55,429	2,018,000E

SOURCE: Production - Department of Commerce, Bureau of the Census, Industry Division.
Current Industrial Reports: Pulp, Paper and Board, Annual Issues
Imports and Exports: Foreign Trade Division, Department of Commerce

NOTE: Excludes Hard Pressed Board
E - Estimated

TABLE XXXV

IMPORTS

1959 - 1985
(000 Tons)

YEAR	Newsprint	Uncoated Groundwood Paper	Coated Papers	Uncoated Free Sheet Papers	Thin Papers	Bleached Bristols	Total Printing/ Writing
1959	5,274	41.5	0	0.2	2	0.3	44.0
1960	5,426	39.5	0	1.8	3	0.5	44.8
1961	5,382	35.9	0	3.4	3	0.5	42.8
1962	5,415	41.5	0	3.8	3	0.4	48.7
1963	5,398	44.2	0	5.3	3	0.5	53.0
1964	5,908	70.6	0	11.2	7	0.5	89.3
1965	6,349	98.1	0.9	10.7	9	0.4	119.1
1966	6,884	132.9	0.9	14.2	11	0.3	159.3
1967	6,546	147.5	1.4	34.7	13	0.5	197.1
1968	6,391	136.8	1.3	13.4	12	0.3	163.8
1969	6,724	216.9	3.3	15.4	10	0.4	246.0
1970	6,477	232.9	3.5	48.9	8	0.4	293.7
1971	6,463	244.2	4.7	108.5	7	0.5	364.9
1972	6,758	225.1	4.5	93.3	6	0.5	329.4
1973	7,236	237.1	12.3	120.2	15	1.0	385.6
1974	7,452	321.3	16.3	138.9	18	3.5	498.0
1975	5,552	264.0	4.7	86.9	9	0.7	374.3
1976	6,308	338.1	15.5	133.9	12	0.6	500.1
1977	6,339	443.2	111.6	155.3	13	17.0#	740.1
1978	7,102	610.7	213.7	112.7	7.3	15.9	959.7
1979	7,168	694.5	188.7	141.7	14.9	16.2	1,053.8
1980	6,880	688.1	114.8	119.0	6.3	14.2	941.3
1981	6,725	650.0	39.0	119.5	12.0	7.9	827.5
1982	6,214	652.8	69.1	157.0	11.3	14.6	904.4
1983	6,725	920.4	162.4	222.8	20.3	19.7	1,345.1
1984	7,488.6	1,298.1	428.4	459.0	46.4	24.1	2,255.3
1985	7,722.7	1,386.9	496.2	379.3	23.7	22.5	2,308.6

SOURCE: Newsprint - Canadian Shipments to U.S., CPPA; Other Country Imports to U.S., U.S. Bureau of Census
Uncoated Groundwood - Imports from Canada, CPPA
Imports from other countries, Bureau of the Census, adjusted by Printing/Writing Division of API
Uncoated Free Sheet Papers - Bureau of the Census, adjusted by Printing/Writing Division of API
Coated Papers - Bureau of the Census

NOTE: Imports used to compute new supply for Table X.
Series revised to include cut size paper.

TABLE XXXVI

EXPORTS

1959 - 1985
(000 Tons)

YEAR	Uncoated Groundwood Papers	Coated Papers	Uncoated Free Shee Papers	Thin Papers*	Cotton Fiber Papers	Bleached Bristols	Total Printing/ Writing	Unbleached Kraft Paperboard	Semichem. Paperboard	Bleached Paperboard	Recycled Paperboard
1959	4.6	25.6	44.8		13	0	88.8	329.0	21.0	17.0	40.0
1960	8.6	26.1	38.2		15	0.8	89.0	381.0	31.0	23.0	46.0
1961	10.2	21.7	34.6		15	0.9	82.5	407.0	62.0	32.0	60.0
1962	9.1	24.3	31.3		15	1.3	80.6	445.0	44.0	33.0	55.0
1963	11.1	27.1	30.1		14	1.7	83.8	517.0	83.0	39.0	53.0
1964	13.1	36.6	34.4		16	1.9	102.3	765.0	107.0	45.0	71.0
1965	3.2	48.5	29.0		29	0	110.0	905.0	55.0	47.0	32.0
1966	3.8	49.6	30.6		32	0	115.6	1,016.0	64.0	59.0	27.0
1967	4.4	46.8	27.3		31	0	109.3	1,174.0	76.0	61.0	23.0
1968	7.9	57.1	31.9		47	0	144.0	1,380.7	94.0	108.5	12.8
1969	6.1	70.0	35.3		56	0	167.4	1,682.8	52.4	108.1	16.8
1970	7.3	75.2	41.3		58	0	181.8	1,683.4	84.3	114.4	17.3
1971	9.9	72.2	46.2		74	0	202.3	1,834.3	104.0	156.5	20.6
1972	17.6	76.2	50.6		68	0	212.4	1,887.5	111.7	217.8	14.4
1973	29.7	80.6	64.9		87	0	262.2	1,596.7	107.4	280.3	30.8
1974	53.3	98.8	100.4		106	0	358.5	1,582.7	145.5	320.2	101.0
1975	74.7	122.8	119.8		80	0	397.3	1,058.0	115.4	256.2	23.9
1976	70.6	106.7	147.3		102	0	426.6	1,247.3	119.3	306.1	36.5
1977	54.1	98.9	111.4		76	0	340.4	1,289.6	121.9	389.4	29.6
1978	58.1	73.7	84.9	26.5	12.2	10.7	266.4	1,466.3	119.2	432.9	21.6
1979	80.4	73.5	68.1	32.4	10.9	9.2	274.2	1,645.3	98.2	496.7	21.8
1980	101.0	92.8	88.3	33.8	16.6	8.8	341.3	2,379.8	322.3	549.4	82.6
1981	119.7	88.6	116.7	42.7	9.2	6.4	383.3	1,886.6	155.2	556.6	23.8
1982	55.9	81.4	70.6	27.7	6.6	4.4	246.6	1,931.4	184.9	524.7	12.7
1983	37.5	79.2	59.3	17.6	4.8	3.7	202.1	2,280.7	192.6	514.5	24.3
1984	30.2	85.6	65.5	14.0	5.0	3.0	203.3	2,086.4	149.2	478.3	17.4
1985	36.7	82.5	64.4	13.3	4.3	1.4	202.6	1,830.0	189.4	465.6	26.3

SOURCE: Paper Grades - Bureau of the Census; Printing/Writing Paper Division compilation
Paperboard Grades - 1959-1967 - Bureau of the Census
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NOTE: Exports used to compute new supply for Table X.

* - 1959-1977 included in Cotton Fiber

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CORRIGENDA

SECTION 1

PRODUCTION AND RELATED OUTPUT DATA

Highlights of 1985

For the paper industry 1985 was a year of transition. Production declined slightly from the 1984 levels, but total output, and that of most grades, marked the second highest levels achieved. The declines in production largely reflected (1) the effects of inventory changes by the paper industry and its major users and (2) the effects of the high value of the dollar in international trade which tended to make the domestic market for paper and paperboard more attractive to overseas producers while reducing the demand for U.S. produced paper and paperboard in foreign markets. At the same time, actual consumption of paper and paperboard increased slightly in 1985 in line with the increase in total economic activity as measured by the real gross national product.

Transitions in the market place included reversal of the steep advance in the dollar; a 20% decline in the value of the dollar from its March 1985 peak to the end of the year was experienced. There is normally a lag between changes in the exchange rates and changes in imports and exports, so that 1985 was still marked by a strong increase in imports of paper and paperboard and decline in exports. By the year end, however, there were some indications that the export balance was improving.

Inventory policies were also in transition. At the beginning of 1985 inventories of paper, paperboard and wood pulp at the mills and at consumers were relatively high. Subsequent changes in inventory policies brought ratios of inventories to production down, so that by the end of the year they were generally in line with their long-term trends.

The year was also marked by continued declines in the rate of inflation, with the major indicators -- the consumer price index, the producer price index and the price deflator of the gross national product -- averaging increases in the 2-4% range, a marked improvement from the double digit levels of only a few years ago. In addition, both short and long-term interest rates headed downward throughout the year.

The impact of these changes on the various sectors of the paper industry in 1985 was by no means uniform. Production of printing and writing papers (excluding newsprint) rose slightly to a new high, largely reflecting the strong demand for uncoated free sheet papers. Coated papers, by way of contrast, were strongly affected by rising imports, and domestic shipments declined sharply. The paper packaging grades also moved downward under the impact of competition from plastic materials.

Among the paperboard grades, production of kraft linerboard was strongly affected by declines in inventories at the mills and box plants as well as reduced exports. Recycled paperboard production, however, moved to a new high, reflecting increases in demand for both the packaging and non-packaging grades.

	YEAR	Total Primary 261-3, 266
Pg. 58	1983	3,697